Service Manual

XG-1(n) (CODE No. 2007-300)

XG-A (CODE No. 2013-300)



MINOLTA XG1(n) 2007-300 (For Export)

TYPE OF CAMERA

35 mm single-lens reflex with automatic and full manual exposure control

SHUTTER

Horizontal-traverse focal-plane type; electronically controlled speeds

Shutter speed: Auto·1/1000 to 1 sec. stepless)

Manual 1/1000, 1/500, 1/250, 1/125, 1/60, 1/30, 1/15, 1/8, 1/4, 1/2, I sec. and B (Bulb)

Shutter dial : Up to ±2 Ev continuous adjustment

of automatic exposure with 1/2 Ev click-stops and lock at "A" | zero

Self-timer : Electronic, LED indicated types,

approximately 10 sec. delay

Flash sync : PC terminal and hot shoe for X-

sync, (disconnect when unit not

installed).

Electronic flash synchronizes at 1/60 sec. and slower step or stepless speeds; Class MF, M, FP flashbulbs synchronize at 1/15 sec.

or slower speeds.

Extra contact on hot shoe receivers signal from camera-control contact of the X-series Auto Electroflashes

FILM ADVANCE

Film winding : By lever with single 130" stroke

after 30° unengaged movement Filmadvance release button for rewinding; advancing-type frame counter and Safe Load Signal that indicates film loading and advancing conditions

Auto winding : Through built-in coupler key with

accessory Auto Winder G

: 4-slot take-up spool Spool Film counter : Auto resetting calculation

VIEWFINDER

Type : Eye-level fixed pentaprism type Viewfinder vision: 93% (standard 24 mm × 36 mm

imagefield)

Viewfinder indication : Accute Matte-field focusing

Magnification : 0.87 × (50 mm standard lens at 100)

Visibility

: -1 diopt

screen with central horizontally oriented split-image focusing spot surrounded by microprism band; stepless speeds indicated by 7 lightemitting diodes; LED over-/ under-range indicators, LED at "60" position also blinks as flash-ready signal with the X-series Auto Electroflashes, manual-mode signal

Mirror : Oversize quick-return type

EXPOSURE CONTROL

Light-Metering system : Full-aperture TTL centerweighted averaging type



Receiver element : By two CdS cells mounted on either side of the evepiece at the rear of the pentaprism

Auto-exposure control : Special low-voltage, low-

current computer circuit. actuated by contact or pressure on "touch switch" operating button, varies the shutter speed continuously and steplessly to yield proper exposure according to metering system indication at the aperture, film speed, and exposure adjustment set

Auto-exposure range : Ev 2 to Ev 17 | e.g., 1/2 sec.

at f/1.4 to 1/1000 sec. at f/ 11 at ASA 100 with f/1.4 lens

Film-speed range : ASA 25 to 1600 set on the

shutter-speed/function selector

: Two 1.5V alkaline-manganese | Eve-Power ready A-76 or equivalent or 1.55V

silver-oxide Eveready EPX-76/S-76 or equivalent; cells power both auto exposure control and shutter's electronically governed operation LED battery check indicator lights when operating switch in battery

check position

Shutter will not release when voltage too low for proper operation

OTHER

Back cover with memo holder and ASA-DIN conversion table; integral grip

ACCESSORIES

- · Exclusive Auto Winder G
- Auto Electroflash 320X, 200X, 132X and 118X
- · Remote Cord S 50 cm (20-in.) and Remote Cord L 5 m (16-ft.)
- · Wireless Controller IR-1
- · MD, MC, and other interchangeable Minolta lenses and applicable Minolta SLR system accessories

SIZE AND WEIGHT

Size : 52 (D) × 89 (H) × 138 (W) mm

 $(2-1/16 \times 3-1/2 \times 5-7/16 \text{ in.})$

Weight : 500 g (17-5/8 oz.)

without lens and power cells

Part No.	Page	Part No.	Page	Part No.	Page
※ 2007-1005	6	2005-1061	6	2019-1361	1
2006-1006	9	2006-1061	2		
2019-1007	1	2005-1062	6	※ 2007-2002	1
2006-1008	9	2006-1062	2	2006-2005	1
2006-1009	1	2005-1063	6	2006-2008	16
2005-1010	6	2006-1064	6	2006-2009	16
2006-1011	6	2013-1068	2	2006-2012	16
2006-1012	13,15	2006-1069	2	2006-2014	1
2006-1014	9	※ 2007−1074−−−−	6	2006-2015	16
2019-1015	3			2006-2016	16
2007-1016	3	2007-1105	15	2006-2017	16
2019-1018	2	2007-1106	4	2019-2018	1
2006-1019	3	2006-1110	15	2019-2020	1
2006-1020	13,15	2019-1111	15	2006-2022	1
0031-1027	13,15	2006-1112	15	2019-2023	1
0031-1034	13,15	2019-1114	4	2006-2035	8
2006-1041	15	2019-1115	4	※ 2007-2070	1
2006-1042	15	2006-1116	4		
2006-1043	15	2006-1117	4	2006-2104	18
2019-1052	2	2006-1119	4	2006-2105	18
		2019-1351	2	2006-2106	18
2006-1054	2	※ 2007-1360	1	2006-2114	17

NEX 7

Part No.	Page	Part No.	Page	Part No.	Page
2006-0120	6	※ 2007-0272	16	2006-0415	1
2019-0132	2	2006-0273	16	2006-0416	1
2006-0140	4	2006-0274	16	2006-0420	5
2006-0151	9	* 2007-0277	16	※ 2007-0440	1
2006-0152	9	※ 2007-0281	1		
2006-0153	9	※ 2007-0290	1	2006-0503	11
※ 2007-0170	2			2009-0505	7
※ 2007-0191	4	2019-0310	14	2009-0510	7
		2006-0325	13	2006-0521	11
2006-0207	18	2019-0326	14	2006-0522	10
2006-0209	18	2006-0338	13	2006-0523	10
2006-0211	18	2019-0340	14	2019-0524	10
2006-0215	17	2006-0350	14	2006-0527	9
2006-0218	17	2019-0360	14	2009-0531	10
2006-0222	17	2019-0375	1	2009-0532	10
2006-0229	17	2019-0381	12	2009-0542	10
2006-0242	17	2019-0384	12	2006-0558	11
2006-0253	18	2006-0385	12	2006-0561	11
2006-0258	18	2019-0396	1	2006-0562	11
2006-0259	18			※ 2007-0566	7
2006-0267	18	* 2007-0402	19	2006-0586	6
2006-0271	16	※ 2007-0413	1	2019-0580	8
				2013-0596	3

 $\mathbf{X}: \mathsf{Parts}$ for only 2007-300(XG-ln)

※印は2007-300 (XG-1n) 専用部品

Part No.	Page	Part No.	Page	Part No.	Page
2006-2130	17	2006-2726	17	2006-3029	14
2006-2131	17	2006-2749	18	2006-3032	13
2006-2132	17	2006-2757	18	2006-3037	13
2006-2143	17	2006-2758	18	2006-3040	14
2006-2144	17	2006-2762	18	2006-3041	13
2006-2147	17	2006-2766	18	2006-3042	13
2006-2148	17	2006-2768	18	2006-3051	14
2006-2183	18	2006-2773	18	2006-3052	13
2006-2184	18	2006-2791	18	2006-3053	13
2006-2185	18			2006-3055	13
2006-2189	18	2019-3002	1	2006-3056	14
2006-2192	18	2006-3003	1	2006-3057	14
2006-2196	18	2019-3004	1		
2006-2197	18	2006-3009	14	2019-3301	1
		2006-3010	5	2019-3303	1
2006-2214	18	2006-3012	14	2019-3304	15
2006-2291	9	2019-3013	1	2019-3306	1
		2006-3020	14	2019-3308	15
2006-2707	17	2006-3021	14	2019-3309	15
2006-2708	17	2019-3024	5	※ 2007−3310−−−−−	1
2006-2718	17	2006-3027	14	2019-3311	1
2006-2723	17	2006-3028	14	2006-3312	15

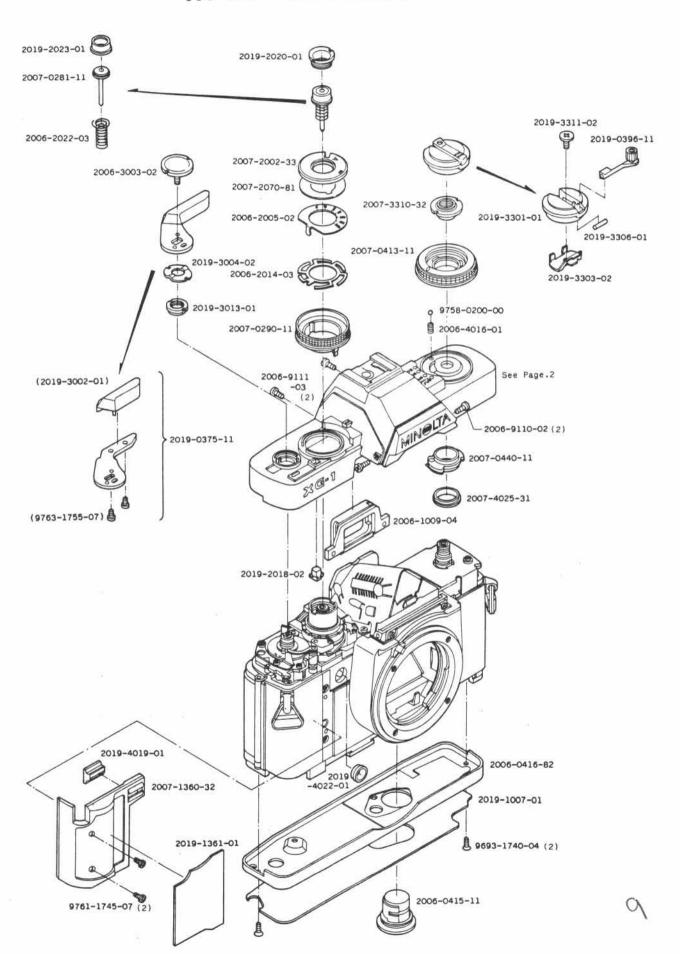
Part No.	Page	Part No.	Page	Part No.	Page
2006-3404	12	2019-4256	2	2007-5026	3
2019-3407	12	2006-4260	3	2006-5027	11
2006-3408	12	2005-4270	16	2006-5028	11
2006-3410	12			2006-5029	11
2006-3411	12	2006-4301	19	2006-5030	11
2006-3412	12	2006-4302	19	2006-5031	7
2006-3414	12	2006-4303	19	2006-5032	7
2006-3415	13	2006-4304	19	2009-5035	7
2019-3416	13	¥		2006-5038	9
2006-3421	13	2006-5006	3	2006-5039	7
		2006-5008	3	2006-5042	10
2006-4016	1	2006-5011	7	2006-5044	10
% 2007-4017	2	2006-5013	7	2006-5046	10
2019-4019	1	2006-5014	7	2009-5051	10
2019-4022	1	2006-5015	7	2009-5058	10
※ 2007-4025	1	2006-5016	7	2009-5081	11
		2019-5017	7		
2006-4216	5	2006-5018	7	2006-5110	11
2006-4253	16	2006-5019	11	2006-5111	11
2006-4254	3	2006-5021	11	2006-5112	11
2006-4255	9	2006-5023	11	2006-5113	11
		2006-5024	7	2006-5114	11

Part No.	Page	Part No.	Page	Part No.	Page
2006-5116	11			2013-9246	2
2006-5117	11				
2006-5118	11	2006-9004	8	2006-9401	15
2006-5119	11	2006-9005	9	2006-9409	15
2006-5120	11	2006-9011	14		
		2006-9012	14	Screw	
2007-5801	3	2006-9103	9	9611-1616-07	11
2007-5803	7	2006-9105	16	9611-1620-01	18
2009-5805	7	2006-9106	11,13	9611-1625-07	-8,9
2019-5806	11	2006-9107	9	9611-1630-01	15
		2019-9108	14	9611-2032-04	6
2006-8401	20	2006-9110	1,5	9611-2090-071	3,15
2006-8402	20	2006-9111	1	9612-1616-02	9
2006-8403	19,20	2006-9112	2	9612-1616-07	6,11
2006-8404	20	2006-9113	5	9612-1618-01	18
2006-8406	20	2006-9121	15	9612-1620-011	7,18
2006-8408	19,20			9612-1625-07	8
2006-8409	20	2006-9131	3,5	9612-1628-07	-6,8
2006-8411	19,20	2006-9132	5	9612-1635-07	6
2006-8413	20	2006-9133	5	9612-1675-07	16
2006-8417	20			9612-1685-07	3
		2006-9245	2		

Part No.	Page	Part No.	Page	Part No.	Page
9613-1418-07	12	9763-1755-07	1	Diode	
9613-1645-07	8			9361-5631-01	19
9613-1650-01	2	E-ring			
		9721-0080-13	11	Transistor	
9615-1416-01	17	9721-0120-13	12,18	9363-1032-01	19
9615-1420-01	17	9721-0150-13	^{10,11} 17,18		
9615-1625-02	17	9721-0200-13	13	Fixed resistor	
9622-1630-01	7				
		Steel ball		9422-1026-32	3
9693-1740-04	1	9758-0200-00	1	9422-1036-62	19
9695-1740-07	3,7			9422-1046-32	19
		Washer		9422-1046-39	19
9761-1728-07	4	9792-2050-40)10	9422-1226-32	3
9761-1745-07	1	9793-1635-40)17	9422-1516-32	3
9761-2040-07	13	9793-1840-86	53	9422-1526-32	3
9761-2050-07	15	9793-2038-50)14	9422-1826-32	3,19
9761-2055-07	12	9793-2140-40	010		
		9794-3858-20	11	9422-2036-39	19
9762-1740-075	,7,15	9798-3155-87	2	9422-2046-39	19
9762-1745-07	-3,12	9793-2250-40		9422-2216-32	3
9762-2040-07	14	L.E.D		9422-2236-39	19
9762-2050-07	14	9353-2642-01	118	9422-2416-62	19

Part No.	Page	Part No.	Page	Part No.	Page
9422-2436-39	19	9431-1037-31	19	9534-1555-33	19
9422-2716-32	3	9431-1057-31	3	9534-1555-63	19
9422-2736-39	19	9431-1257-31	3	9535-1555-31	19
		9431-1557-31	3	9535-1555-36	19
9422-3016-62	19	9431-3047-31	19	9535-6845-31	19
9422-3036-39	19	9431-3347-31	3	9563-4738-31	19
9422-3036-62	19	9431-3947-31	3		
9422-3316-32	3	9431-4747-31	3		
9422-3326-32	19	9431-5647-31	3		
9422-3336-39	19	9431-6847-31	3		
9422-3916-32	-3,19	9431-8247-31	3		
9422-3936-39	19				
*		Variable resistor			
9422-4716-32	3	9472-1529-38	19		
9422-4736-39	19	9472-1539-38	19		
9422-5616-32	3	9472-2049-38	19		
9422-5636-39	19				
9422-6806-32	19	Condenser			
9422-6816-32	3	9531-1575-61	19		
9422-6836-39	19	9531-2265-31	19		
9422-8216-32	-3,19	9531-3365-61	19		
		9531-4765-31	19		

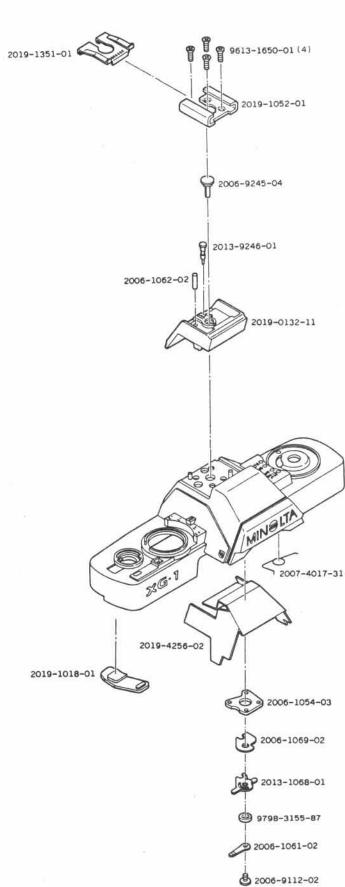
XG-I(n) CODE No. 2007-300

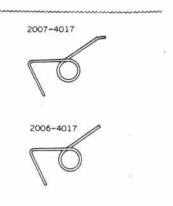


	Part No.	Part Name		Qty
*	£2007-0281-11	Shutter release button set	シャッター釦軸セット	1
*	{2007-0290-11	Shutter speed dial/Function sel	ectorシャッターダイヤルセット	1
	2019-0375-11	Film advance lever set	巻上レバーセット	1
	(2019-3002-01)	Film advance lever knob	巻上レバー指当て	1
	(9763-1755-07)	Tap tite screw 十字穴	て付半丸皿頭タップタイトねじ	2
	2019-0396-11	Rewinding handle set	巻戻しハンドルセット	1
*	2007-0413-11	Self-timer dial set	セルフダイヤルセット	1
	2006-0415-11	Battery holder set	電池ケース蓋 セット	1
	2006-0416-82	Bottom cover set	下カバーセット	1
*	2007-0440-11	Self-timer contact set	セルフ切換接片セット	1
	2019-1007-01	Sheet	下カバー用保護シート	1
	2006-1009-04	Eye-piece frame	接眼枠	1
*	2007-1360-32	Grip	グリップ	1
	2019-1361-01	Grip leather	グリップ貼皮	1
*	2007-2002-33	Shutter speed dial	スピードダイヤル銘板	1
	2006-2005-02	ASA dial	ASA 銘板	1
	2006-2014-03	ASA spring	ASA スプリング	1
	2019-2018-02	Auto lock button	オートロック釦	1
	2019-2020-01	Shutter release button pressure	シャッター釦押え	1
	2006-2022-03	Shutter release button spring	シャッター釦スプリング	1
	2019-2023-01	Shutter release button cap	シャッター釦キャップ	1
*	2007-2070-81	Mylar sheet	マイラーシート	1
	2006-3003-02	Winding lever pressure	巻上レバー押え	1
	2019-3004-02	Winding lever friction	巻上レバーフリクション	1
	2019-3013-01	Top cover nut	上カバー止めナット	1
	2019-3301-01	Rewinding knob	巻戻しノブ	1
	2019-3303-02	Rewinding bandle spring	巻戻しパネ	1
	2019-3306-01	Rewinding bandle axis	巻戻しハンドル軸	1
*	2007-3310-32	Top cover pressure nut	上カバー押えナット	1
	2019-3311-02	Rewinding knob screw	巻戻しノブビス	1
	2006-4016-01	Self-timer dial click spring	セルフダイヤルクリックSP	1
	2019-4019-01	Self-timer window	セルフ表示窓	1
	2019-4022-01	Reflection ring	セルフ表示反射環	1
*	2007-4025-31	Contact receiver	セルフ切換接片受	1
	2006-9110-02	Screw-A	特殊止めビス	2
	2006-9111-03	Screw-B	特殊止めビス	2
	9693-1740-04	Phillips type tapping screw 十年	7穴付半丸Ⅲ頭タッピングねじ	2
	9761-1745-07	Tap tite screw +5	4穴付なべ頭タップタイトねじ	2
	9758-0200-00	Steel ball	スチールポール	1
	W = -	February Versial Lawren Terma II		

%: Parts for only 2007-300 (XG-ln) ※印は2007-300 (XG-1n) 専用部品

Assy. Part No. 2007-0170-11





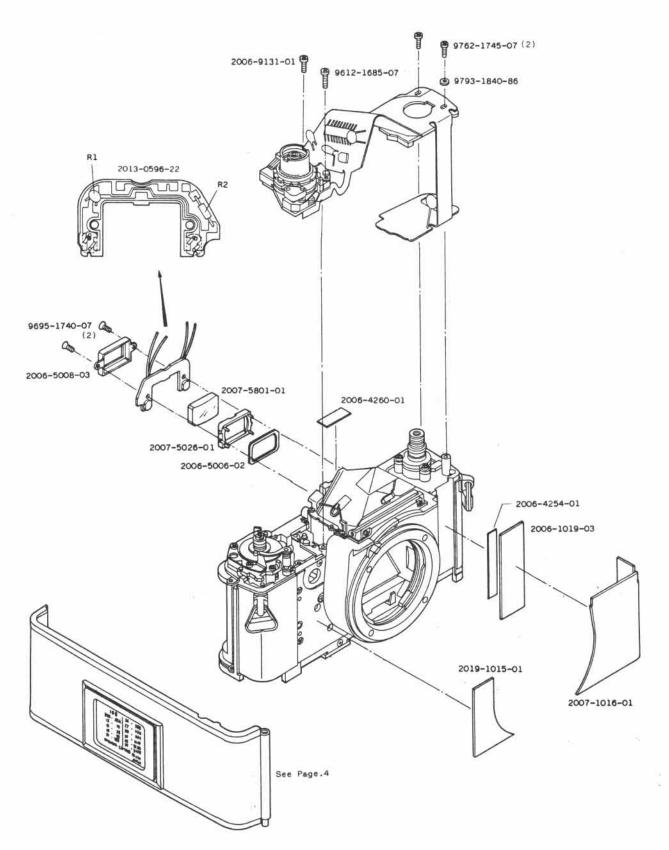
The self-timer return spring (2007-4017) is exclusive part for 2007-300, not exchangeable with 2006-4017.

セルフダイヤル戻しSPは2007-300 専用部品となっておりますので、 部品交換の際は注意して下さい。

Part No.	Part Name		Qty
※ 2007-0170-11	Top cover set	上カバーセット	1
2019-0132-11	Accessory shoe base set	アクセサリーシュー座	1.
2019-1018-01	Counter window	カウンター窓	1,
2019-1052-01	Accessory shoe	アクセサリーシュー	1
2006-1054-03	Accessory shoe set plate	アクセサリーシュー取付板	1
2006-1061-02	Contact-D	コンタクト接片D	1
2006-1062-02	Counter operation pin	コンタクト接片連動ピン	1
2013-1068-01	Contact-E	コンタクト接片E	1
2006-1069-02	Contact isolation sheet	コンタクト接片絶縁シート	1
2019-1351-01	Accessory shoe spring	アクセサリーシューバネ	1
※ 2007-4017-31	Self-timer reutrn spring	セルフダイヤル戻しSP	1
2019-4256-02	Top cover isolation sheet	上カバー絶縁シート	1
2006-9112-02	Contact pressure screw	止めビス	1
2006-9245-04	Contact-A	コンタクト接点A	1
2013-9246-01	Contact-B	コンタクト接点B	1
9613-1650-01	Phillips type screw	十字穴付半丸皿頭小ねじ	4
9798-3155-87	Washer	薄ワッシャー	1

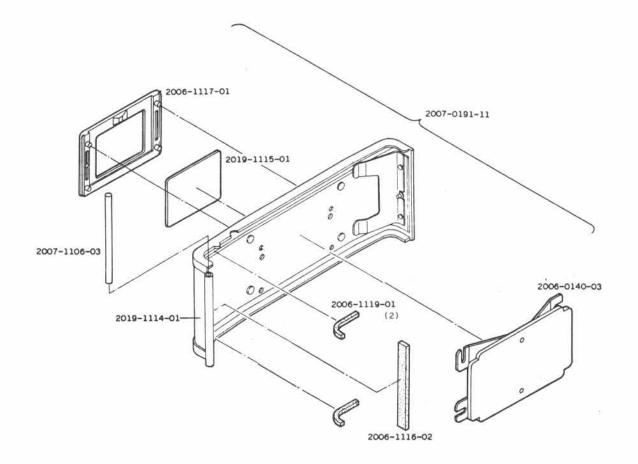
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XG-I(n) CODE No. 2007-300



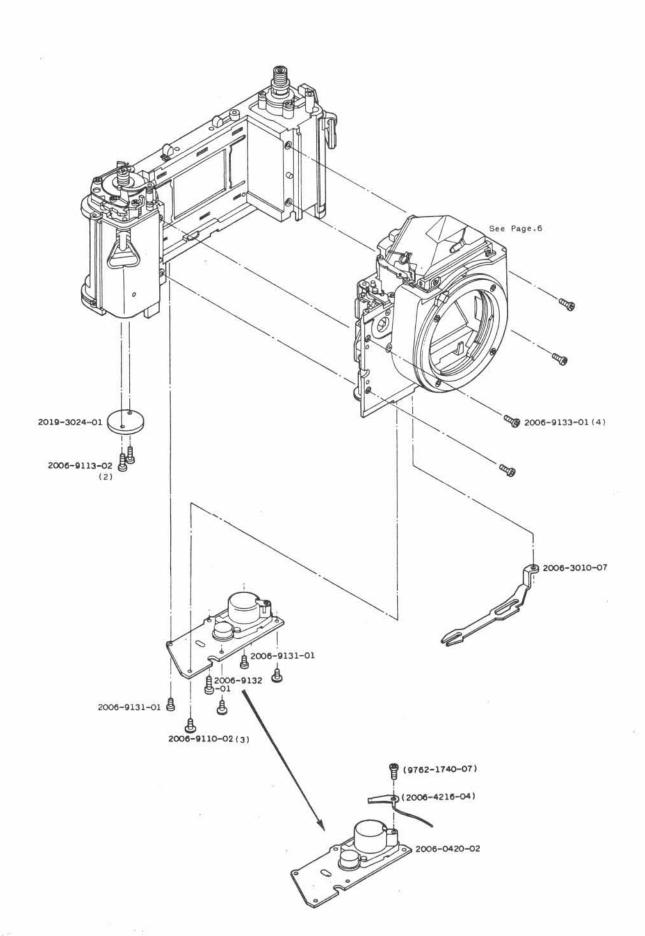
Part No.	Part Name		Qty
2013-0596-22	CdS circuit base plate set	CdS基板セット	1
2019-1015-01	Right side leather	ポデー貼皮 (右)	1
2007-1016-01	Left side leather	ポデー貼皮 (左)	1
2006-1019-03	Body leather	ポデー貼板	1
2006-4254-01	Tape-A(5x45mm)	フレキ接着テープ	1
2006-4260-01	Isolation tape-A(4.5x15mm)	絶縁紙	1
2006-5006-02	Eye-piece lens light shield	frame接眼レンズ遮光枠	1
2006-5008-03	Eye-piece lens pressure	接眼レンズ押え	1
2007-5026-01	Eye-piece lens holder	接眼レンズホルダー	1
2007-5801-01	Eye-piece lens	接眼レンズ	1
2006-9131-01	Screw	特殊止めビス	1
9612-1685-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9695-1740-07	Phillips type tapping screw	十字穴付皿頭タッピングねじ	2
9762-1745-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9793-1840-86	Washer	薄ワッシャー	1

Symbol	Part No.	Part Name	Type.	Qty
R1	9431-3347-31		1/16W, 330K Ω	1
	9431-3947-31		1/16W, 39OK Ω	1
	9431-4747-31		1/16W, 470KΩ	1
	9431-5647-31		1//6W, 57OK Ω	1
	9431-6847-31		$1/16$ W, 68 OK Ω	1 > 1
	9431-8247-31		1/16W, 82OK Ω	11
	9431-1057-31		1/16W. 1M Ω	1
	9431-1257-31		1/16W, 1.2M Ω	1 .
	9431-1557-31		1/16W, 1.5M Ω.	1)
R2	9422-1516-32	Fixed resistor	1/8W, 150 Ω	1
	9422-2216-32		1/8W, 220Ω	1
	9422-2716-32		1/8W, 270Ω	11
	9422-3316-32		1/8W, 330Ω	1
	9422-3916-32		1/8W, 390Ω	
	9422-4716-32		1/8W, 470Ω	
	9422-5616-32		1/8W, 560 Ω	
	9422-6816-32		1/8W, 680Ω	
9422-8216-32 9422-1026-32	9422-8216-32		1/8W, 820Ω	
		1/8W, 1KΩ	1	
	9422-1226-32		1/8W, 1.2KΩ	11
	9422-1526-32		1/8W, 1.5KΩ	
	9422-1826-32		1/8W, 1.8KΩ	† /



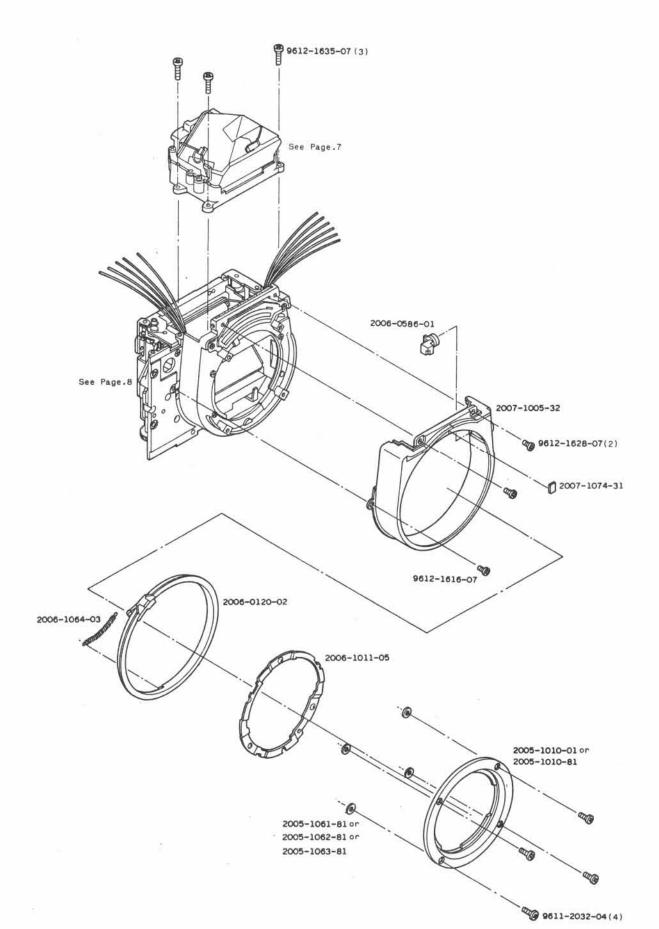


	Part No.	Part Name		Qty
*	2007-0191-11	Back cover set	裏蓋セット	1
	2007-1106-03	Hinge axis-A	ヒンジ軸 A	1
	2019-1114-01	Back leather	裏蓋貼皮	1
	2019-1115-01	Conversion scale	ASA.DIN 換算板	1
	2006-1116-02	Light shield plate	裏蓋遮光片	1
	2006-1117-01	Back cover pocket	裏蓋ポケセット	1
	2006-1119-01	Light shield plate-B	裏蓋遮光片B	2
	2006-0140-03	Pressure plate set	圧着板セット	1
	※:Parts for only	2007-300 (XG-1n)		
	※印は2007-300 (X	G-1n) 専用部品		



Part No.	Part Name		Qty
2006-0420-02	Battery case base plate set	電池ケース台板	1
(2006-4216-04)	Plus side contact	電池ケース接片(+)	1
(9762-1740-07)	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
2006-3010-07	Charge lever	チャージレバー	1
2019-3024-01	Winder coupler	ワインダーカプラー	1
2006-9110-02	Screw-A	止めビス	3
2006-9113-02	Screw	止めビス	2
2006-9131-01	Battery case set screw-A	止めビス	2
2006-9132-01	Battery case set screw-B	止めビス	1
2006-9133-01	Front base plate set screw	止めピス	4

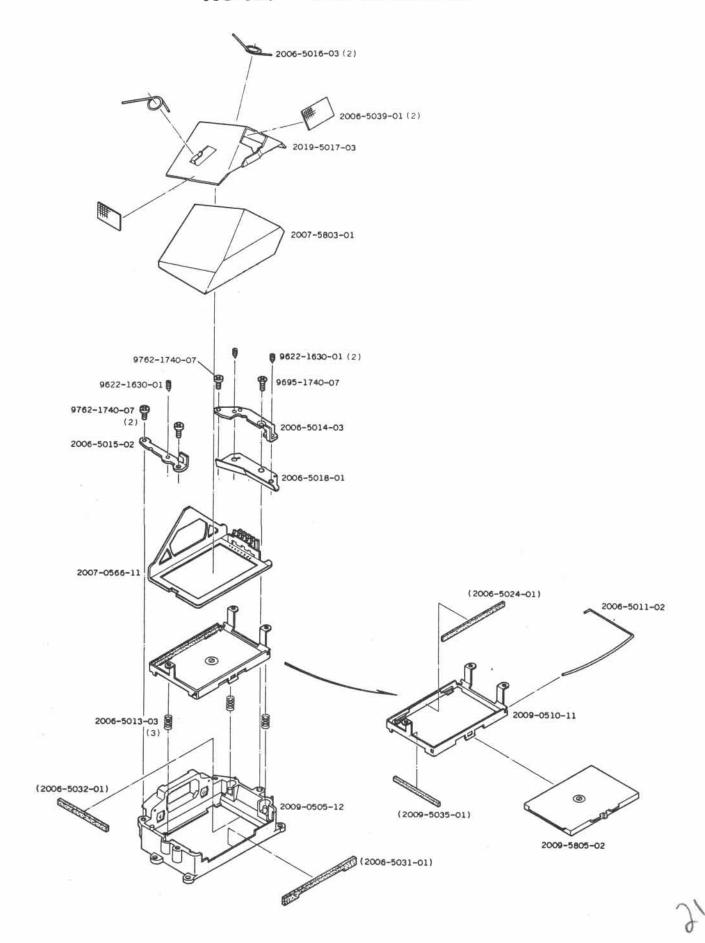
XG-I(n) CODE No. 2007-300



Part No.	Part Name		Qty
2006-0120-02	Aperture coupling ring set	連結リングセット	1
2006-0586-01	Lens lock button set	レンズロック釦セット	1
※ 2007−1005−32	Front cover	前カバー	1
2005-1010-01	Bayonet lens mount	パヨネット座板	1
2005-1010-81	Bayonet lens mount (-0.1mm)	バヨネット座板 (-0.1mm)	1
2006-1011-05	Bayonet spring	パョネットスプリング	1
2005-1061-81	Adjustment washer-A t=0.02	調整ワッシャーA	7
2005-1062-81	Adjustment washer-B t=0.05	調整ワッシャーB	Some
2005-1063-81	Adjustment washer-C t=0.1	調整ワッシャーC	若 干
2006-1064-03	Aperture coupling ring spring	連結リングスプリング	1
※ 2007-1074-31	Front cover indication	前カバー指標	1
9611-2032-04	Phillips type screw	十字穴付なべ頭小ねじ	4
9612-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1628-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1635-07	Phillips type screw	十字穴付なべ頭小ねじ	3
*Parts for only	2007-300 (XG-1n)		

※印は2007-300 (XG-1n) 専用部品

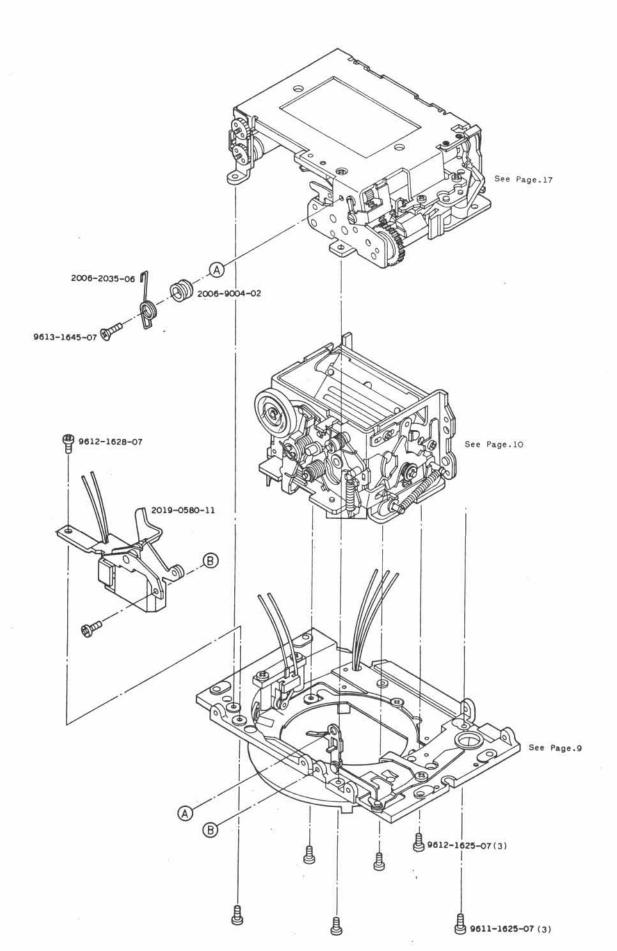
XG-I(n) CODE No. 2007-300



Part No.	Part Name		Qty
2009-0505-12	Penta. holder set	ベンターホルダーセット	1
(2006-5031-01)	Packing-A	防塵モルトプレンA	1
(2006-5032-01)	Packing-B	防塵モルトプレンB	1
2009-0510-11	Fresnel lens holder set	焦点板ホルダーセット	1
(2006-5024-01)	Packing-C	防塵モルトプレンC	1
(2009-5035-01)	Shield plate	防塵塩ビシート	1
※ 2007-0566-11	Penta. reciver set	ペンタ受セット	1
	₹		
2006-5011-02	Fresnel lens pressure spring	焦点板押えSP	1
2006-5013-03	Fresnel lens holder spring	焦点板ホルダーSP	3
2006-5014-03	Penta. pressure (Left side)	ペンタ押え(左)	1
2006-5015-02	Penta. pressure (Right side)	ペンタ押え(右)	1
2006-5016-03	Penta. spring	ペンタ押えSP	2
2019-5017-03	Penta. pressure	ペンタ押え板	1
2006-5018-01	LED diffusion plate	LED 拡散板	1
2006-5039-01	Penta pressure tape per meter	ペンタ押え板接着テープ	2
2007-5803-01	Penta. prism	ベンタプリズム	1
2009-5805-02	Fresnel lens	焦点板	1
9622-1630-01	Screw	トガリ先止めねじ	3
9762-1740-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	3
9695-1740-07	Phillips type tapping screw	十字穴付皿頭タッピングねじ	1
₩: Parts for only	2007-300(XG-1n)	ë	

※:Parts for only 2007-300(XG-ln) ※印は2007-300 (XG-ln) 専用部品

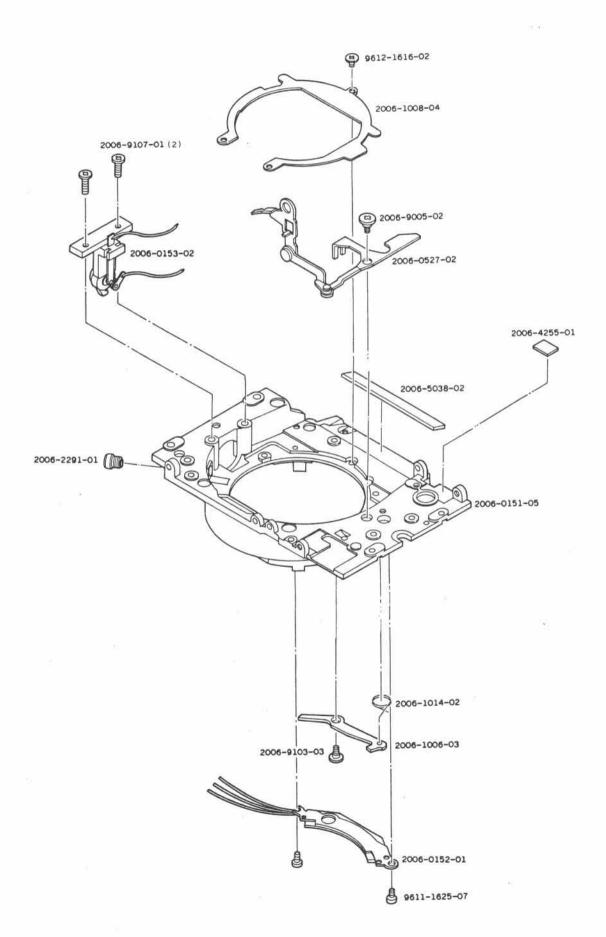
XG-I(n) CODE No. 2007-300



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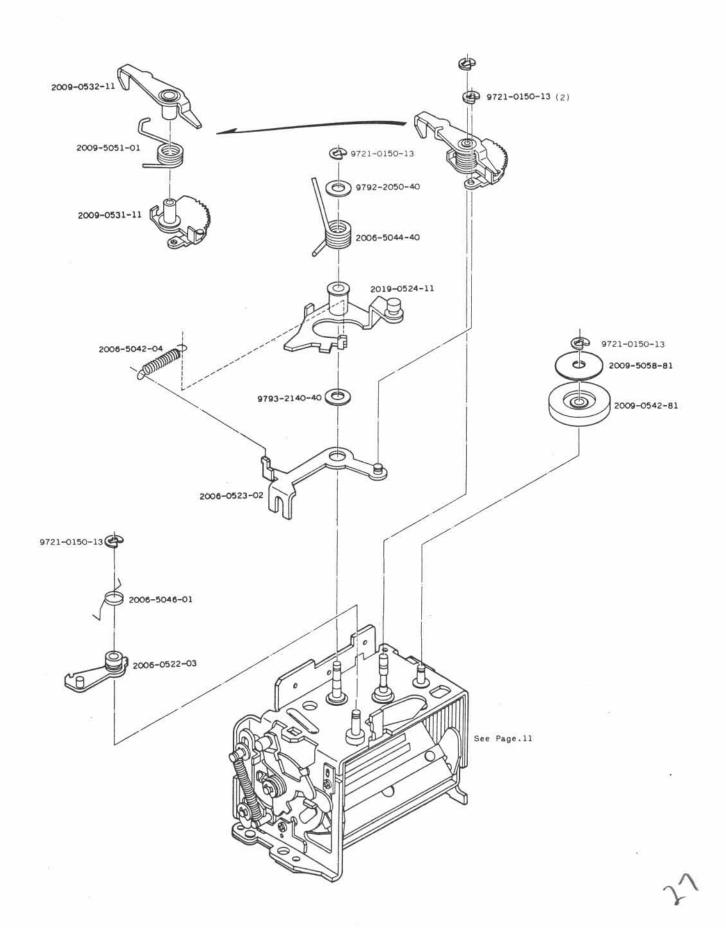
Part No.	Part Name		Qty
2019-0580-11	Magnetic release base plate set	レリーズマグネット台板	1
2006-2035-06	Release operation lever spring	吸着用SP	1
2006-9004-02	Release operation lever A setscrew	レリーズ連結レバーA軸	1
9611-1625-07	Phillips type screw	十字穴付なべ顕小ねじ	3
9612-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9612-1628-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9613-1645-07	Phillips type screw	十字穴付半丸皿頭小ねじ	1

XG-I(n) CODE No. 2007-300



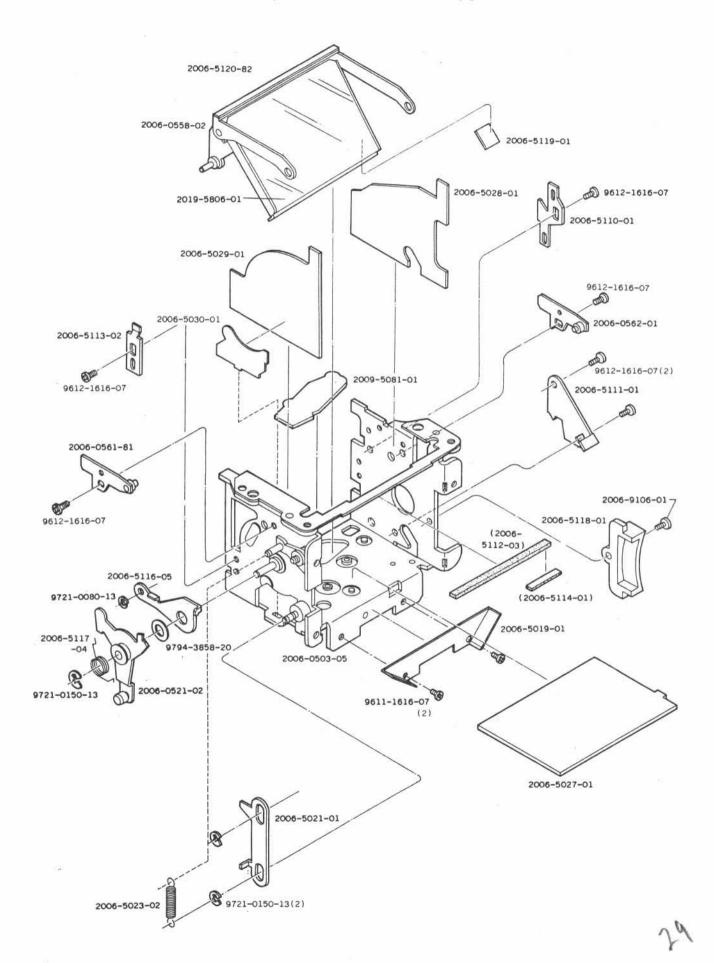
Part No.	Part Name		Qty
2006-0151-05	Front base plate set	前枠セット	1
2006-0152-01	Av resitor set	回路基板Bセット	1
2006-0153-02	Remote control base plate set	リモコン接片基板セット	1
2006-0527-02	Release operation lever-A set	レリーズ連結レバーセット	1
2006-1006-03	Lens lock lever	レンズロックレパー	1
2006-1008-04	Mirror box light shield plate	ミラーポックス遮光板	1
2006-1014-02	Lock lever spring	ロックレバーSP	1
2006-2291-01	Synchro terminal set	シンクロターミナル	1
2006-4255-01	Tape A (3.8X8)	テープ A	1
2006-5038-02	Pneta. front packing	ペンタ前面押えクッション	1
2006-9005-02	Release operation lever-C set screw	止めねじ	1
2006-9103-03	Lens lock axis	レンズロック軸	1
2006-9107-01	Screw-D	止めねじ	2
9612-1616-02	Phillips type screw	十字穴付なべ頭小ねじ	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2

XG-I(n) CODE No. 2007-300



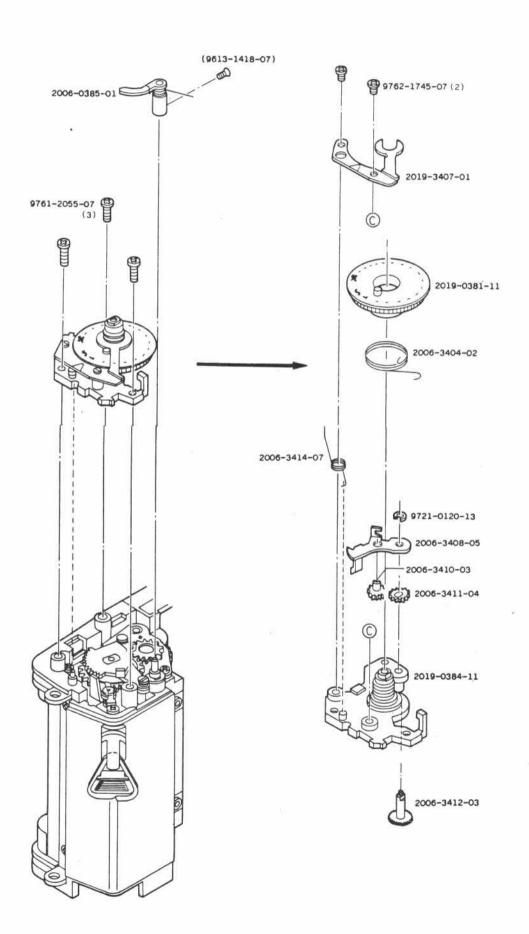
Part No.	Part Name		Qty
2006-0522-03	Mirror return lever lock claw	set ミラー戻しレバーロック爪	1
2006-0523-02	Preset operation lever set	セッ プリセット連動レバーセット	1
2019-0524-11	Mirror return lever set	ミラー戻しレバーセット	1
2009-0531-11	Preset operation plate set	プリセット作動板	1
2009-0532-11	Preset lever set	プリセットレバー	1
2009-0542-81	Fly wheel gear set	フライホールギャー	1
2006-5042-04	Mirror-up spring	ミラーアップSP	1
2006-5044-40	Mirror return spring	ミラー戻しSP	1
2006-5046-01	Lock claw spring	ロック爪スプリング	1
2009-5051-01	Preset lever spring	プリセットレバーSP	1
2009-5058-81	Fly wheel washer	フライホイールワッシャー	1
9721-0150-13	E-ring	E リング	5
9792-2050-40	Washer	薄ワッシャー	1
9793-2140-40	Washer	薄ワッシャー	1

XG-I(n) CODE No. 2007-300



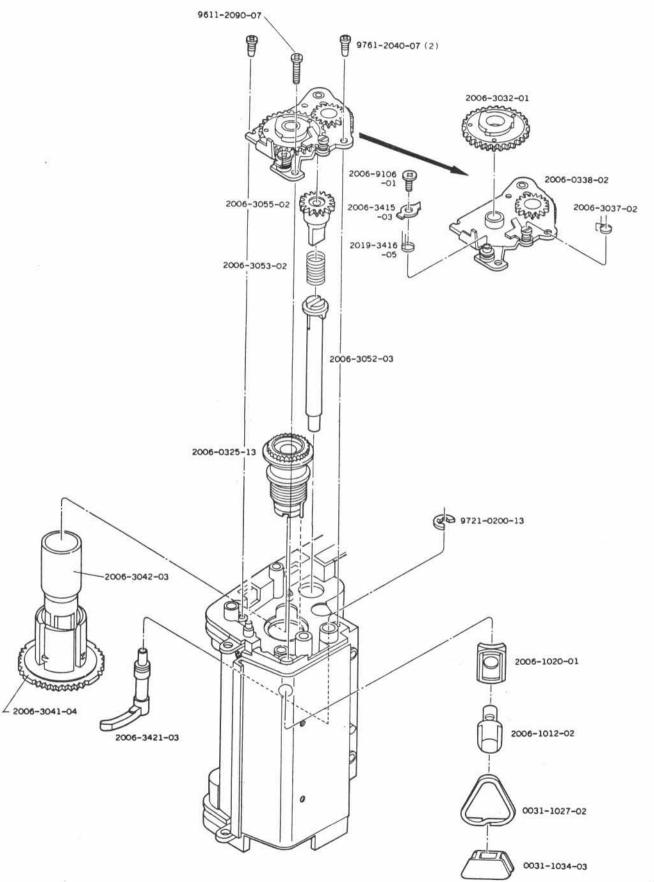
Part No.	Part Name		Qty
2006-0503-05	Mirror box set	ミラーポックスセット	1
(2006-5112-03)	Mirror cushion	ミラークッション	1
(2006-5114-01)	Mirror cushion-B	ミラークッションB	1
2006-0521-02	Mirror operation lever-set	ミラー操作レバーセット	1
2006-0558-02	Mirror holder set	ミラーホルダーセット	1
2006-0561-81	Operation lever-B base set (Righ	nt)ミラー操作レバーB軸台セッ	1
2006-0562-01	Operation lever-B base set (Left		
		(左))
2006-5019-01	Mirror box apron	ミラーボックスエプロン	1
2006-5021-01	Mirror release lever	ミラーレリーズレバー	1
2006-5023-02	Release lever spring	ミラーレリーズレバーSP	1
2006-5027-01	Flare shield plate(bottom)	フレアー防止シート (下)	1
2006-5028-01	Flare shield plate(Left side)	フレアー防止シート (左)	1
2006-5029-01	Flare shield plate(Right side)	フレアー防止シート (右)	1
2006-5030-01	Flare shield support plate	フレアー防止シート補助板	1
2009-5081-01	Mirror box cover	ミラーポックス穴カバー	1
2006-5110-01	Mirror support stopper-A	ミラー補助ストッパーA	1
2006-5111-01	Mirror stopper	ミラーストッパー	1
2006-5113-02	Mirror support stopper-B	ミラー補助ストッパーB	1
2006-5116-05	Mirror operation lever-B	ミラー作動レバー	1
2006-5117-04	Mirror opeation lever spring	ミラー操作レバーSP	1
2006-5118-01	Mirror box light shield palte	ミラーポックス遮光片	1
2006-5119-01	Mirror stopper gum	ミラーストッパーゴム	1
2006-5120-82	Mirror arm cushion	ミラーアームクッション	1
2019-5806-01	Mirror	ミラー	1
2006-9106-01	Screw-C	止めビス	1
9611-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	6
9721-0080-13		Eリング	1
9721-0150-13	E-ring	Eリング	3
9794-3858-20	Washer	薄ワッシャー	1

XG-I(n) CODE No. 2007-300



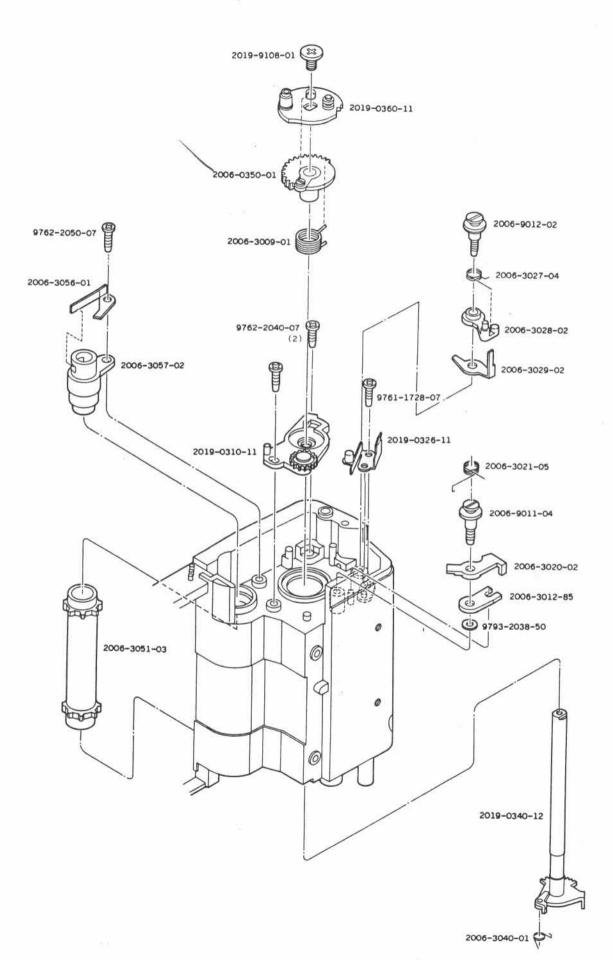
Part No.	Part Name		Qty
2019-0381-11	Counter dial set	カウンターダイヤルセット	1
2019-0384-11	Winding base palte-B set	巻取台板Bセット	1
2006-0385-01	Film indication lever axis set	フイルム表示レバーセット	1
(9613-1418-07)	Phillips type screw	十字穴付半丸皿頭小ねじ	1
2006-3404-02	Counter return spring	カウンター戻しSP	1
2019-3407-01	Counter index	カウンター指標	1
2006-3408-05	Counter operation lever	カウンター駆動操作レバー	1
2006-3410-03	Counter operation gear-B set	カウンター駆動ギヤー	1
2006-3411-04	Counter operation gear-C set	カウンター伝達ギヤー	1
2006-3412-03	Counter operation gear-A	カウンター連結ギヤー	1
2006-3414-07	Return lever spring	ゼロリターンSP	1
9761-2055-07	Tap tite screw	十字穴付なべ頭タップタイトね	じ3
9762-1745-07	Tap tite screw	十字穴付なべ頭タップタイトね	Ľ2
9721-0120-13	E-ring	E リング	1

XG-I(n) CODE No. 2007-300



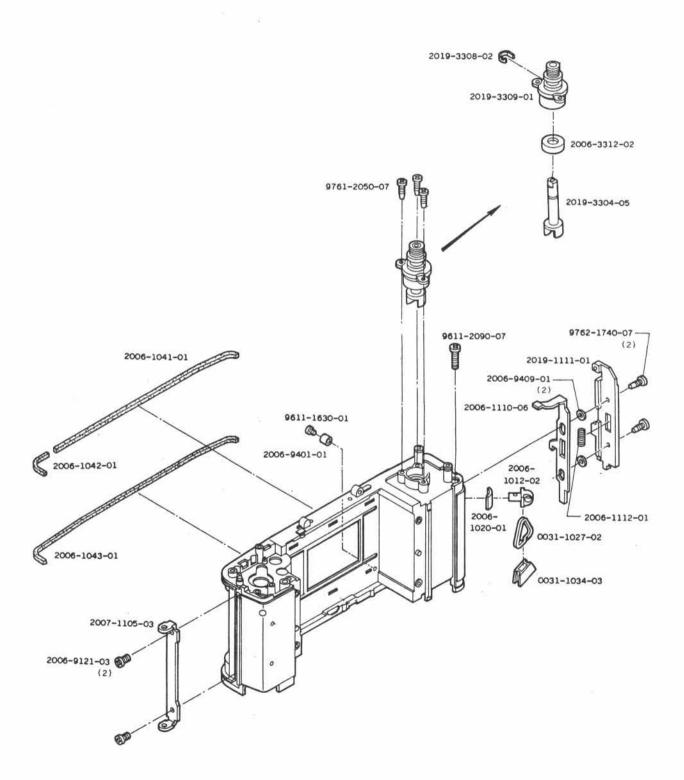
Part No.	Part Name		Qty
2006-0325-13	Spool gear set	スプールギヤーセット	1
2006-0338-02	Winding base plate-A set	巻取台板 A セット	1
2006-1012-02	Strap hanger	吊環	1
2006-1020-01	Strap hanger seat	吊環座	1
0031-1027-02	Triangle hanger	三角吊環	1
0031-1034-03	Triangle hanger stopper	三角環回り止め	1
2006-3032-01	Winding gear	巻取ギャー	1
2006-3037-02	Reversing stop claw spring	逆転防止爪SP	1
2006-3041-04	Spool	スプール	1
2006-3042-03	Spool inner barrel	スプール内筒	1
2006-3052-03	Sprocket shaft	スプロケット軸	1
2006-3053-02	R button release spring	R 釦解除SP	1
2006-3055-02	Sprcket gear	スプロケットギヤー	1
2006-3415-03	Winding operation lever-A	トンポ返リレバー	1
2019-3416-05	Winding operation lever spri	ng トンポ返りレバーSP	1
2006-3421-03	Film indication filler	フイルム表示フイラー	1
2006-9106-01	Screw-C	止めねじ	1
9611-2090-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9761-2040-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9721-0200-13	E-ring	Eリング	1

XG-I(n) CODE No. 2007-300



Part No.	Part Name		Qty
2019-0310-11	Winding axis receiver set	巻取軸受セット	1
2019-0326-11	S4 contact set	S4 接片セット	1
2019-0340-12	Winding operation plate set	巻取操作板セット	1
2006-0350-01	Shutter charge gear-D set	シャッターチャージギヤーセット	1
2019-0360-11	Charge operation plate set	チャージ操作板セット	1
2006-3009-01	Return spring	戻しSP	1
2006-3012-85	Winding stop lever	巻止めレバー	1
2006-3020-02	Reset lever	リセットレバー	1
2006-3021-05	Reset lever spring	リセットレバースプリング	1
2006-3027-04	S4 spring	S4 SP	1
2006-3028-02	S4 change lever	S4 切換レバー	1
2006-3029-02	S4 lug plate	S4 ラグ板	1
2006-3040-01	Widning claw spring	巻取爪SP	1
2006-3051-03	Sprocket	スプロケット	1
2006-3056-01	R button lock spring	R釦ロックSP	1
2006-3057-02	Sprocket receiver	スプロケット軸受	1
2006-9011-04	Winding stop lever axis	巻止めレバー軸	1
2006-9012-02	S4 change lever axis	S4 切換レバー軸	1
2019-9108-01	Screw	止めねじ	1
9761-1728-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9762-2040-07	Tap tite screw	十字穴付なべ頭タップナイトねじ	2
9762-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9793-2038-50	Washer	薄ワッシャー	1

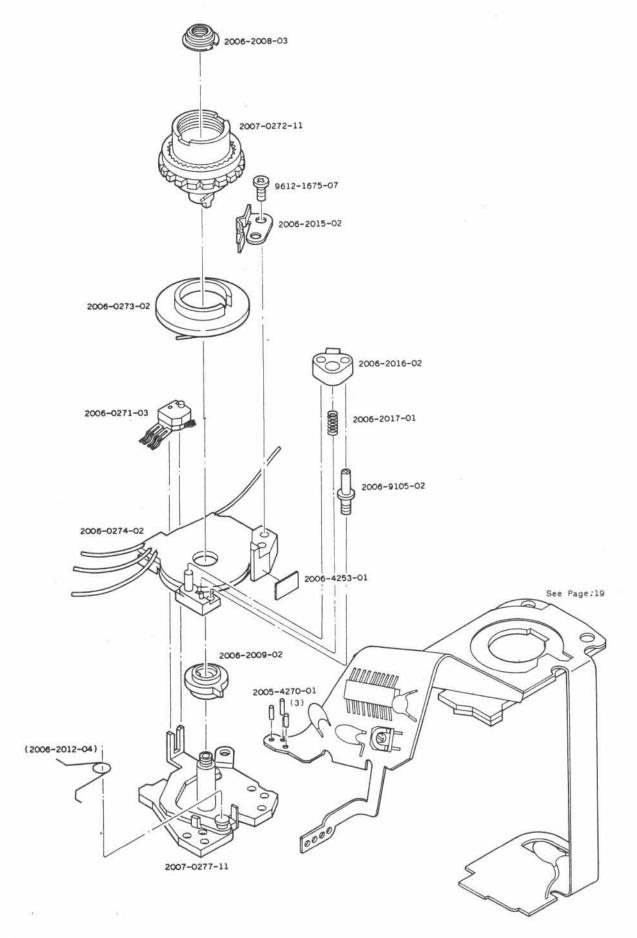
XG-I(n) CODE No. 2007-300





Part No.	Part Name		Qty
2006-1012-02	Strap hanger	吊環	1
2006-1020-01	Strap hanger seat	吊環座	1
0031-1027-02	Triangle hanger	三角吊環	1
0031-1034-03	Triangle hanger stopper	三角環回り止め	1
2006-1041-01	Light shield packing-A	進光パッキンA	1
2006-1042-01	Light shield packing-B	遮光パッキンB	1
2006-1043-01	Light shield packing-C	遮光バッキンC	1
2007-1105-03	Hinge	ヒンジ	1
2006-1110-06	Back cover lock lever	裏蓋ロックレバー	1
2019-1111-01	Lock cover	ロックカバー	1
2006-1112-01	Back cover lock spring	裏蓋ロックSP	1
2019-3304-05	Rewinding fork	巻戻しフォーク	1
2019-3308-02	Rewinding friction spring	巻戻しフリクションSP	1
2019-3309-01	Rewinding axis receiver	巻戻し軸受	1
2006-3312-02	Light shield collar	巻戻し遮光カラー	1
2006-9121-03	Tapping screw	止めねじ	2
2006-9401-01	Film guide collar	フイルムガイドカラー	1
2006-9409-01	Back cover lock guide	裏蓋ロックガイド	2
9611-1630-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9611-2090-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9761-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	. 3
9762-1740-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	. 2

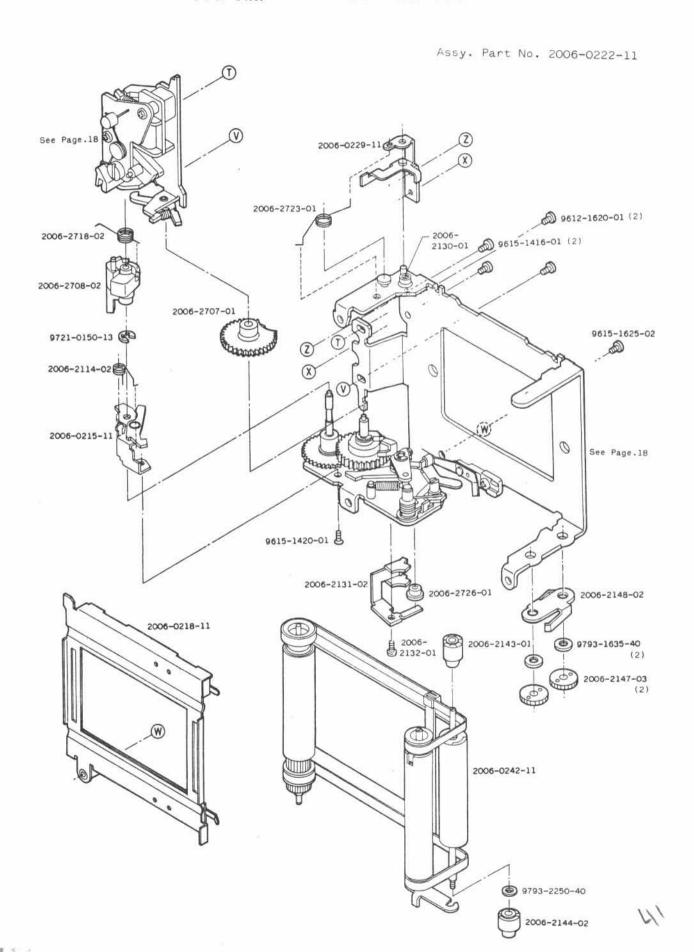
XG-I(n) CODE No. 2007-300



	Part No.	Part Name		Qty
	2006-0271-03	AM change holer set	AM切換ホルダーセット	1
*	2007-0272-11	Dial axis set	ダイヤル軸セット	1
	2006-0273-02	ASA brush holder set	ASAプラシホルダーセット	1
	2006-0274-02	ASA resistor set	回路基板Aセット	1
*	2007-0277-11	Shutter speed dial base plate	set シャッターダイヤル台板セッ	1
	(2006-2012-04)	AM change spring	AM切換SP	1
	2006-2008-03	Shutter speed dial pressure	シャッターダイヤル押え	1
	2006-2009-02	Cam plate	カム板	1
	2006-2015-02	Click spring	クリックSP	1
	2006-2016-02	Auto lock plate	オートロック板	1
	2006-2017-01	Auto lock spring	オートロックSP	1
	2006-4253-01	Tape-B	フレキ接着テープ	1
	2005-4270-01	Jamp lead (ØO.4 £=3mm)	ジャンプリード	3
	2006-9105-02	Auto lock plate guide	オートロック板ガイド	1
	9612-1675-07	Phillips type screw	十字穴付なべ頭小ねじ	1

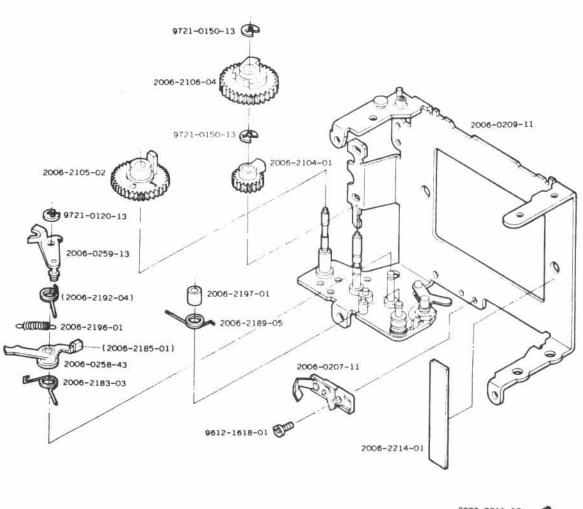
※:Parts for only 2007-300(XG-ln) ※印は2007-300 (XG-ln) 専用部品

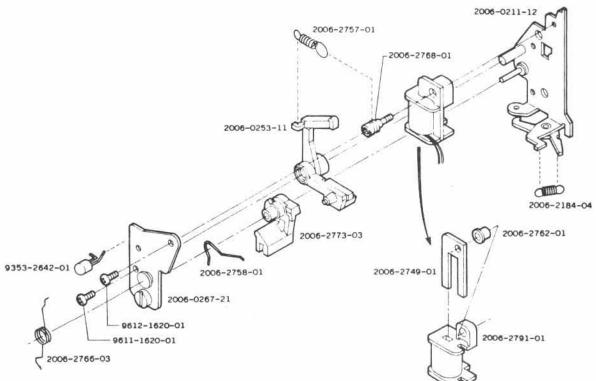
XG-I(n) CODE No. 2007-300



Part No.	Part Name		Qty
2006-0222-11	Shutter complete set	シャッタープロック	1
2006-0215-11	lst curtain stop lever set	一幕係止レバーセット	1
2006-0218-11	Shutter cover set	シャッターカバー板セット	1
2006-0229-11	2nd curtain stop lever set	二幕係止レバーセット	1
2006-0242-11	Shutter curtain set	シャッター幕セット	1
2006-2114-02	First curtain stop lever spring	一幕係止レバーSP	1
2006-2130-01	Adjusting screw	幕調整ねじ	1
2006-2131-02	Curtain ribbon guide plate	幕リポンガイド板	1
2006-2132-01	Ribbon guide plate screw	止めねじ	1
2006-2143-01	2nd curtain roller-A	二幕ローラーA	1
2006-2144-02	2nd curtain roller-B	二幕ローラーB	1
2006-2147-03	Ratchet 幕スフ	リング筒軸止めラチエット	2
2006-2148-02	Ratchet stop spring	ラチエット止めSP	1
2006-2707-01	2nd curatin shutter gear	二幕シャッターギャー	1
2006-2708-02	Control cam	制御カム	1
2006-2718-02	Control cam operation spring	制御カム駆動SP	1
2006-2723-01	2nd curtain stop lever spring	二幕係止レバーSP	1
2006-2726-01	Curtain shaft receiver-B	幕軸受 B	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	2
9615-1416-01	Phillips type screw	十字穴付皿頭小ねじ	2
9615-1420-01	Phillips type screw	十字穴付皿頭小ねじ	1
9615-1625-02	Phillips type screw	十字穴付皿頭小ねじ	1
9721-0150-13	E-ring	Eリング	1
9793-1635-40	Washer	薄ワッシャー	2
9793-2250-40	Washer	薄ワッシャー	1

XG-I(n) CODE No. 2007-300



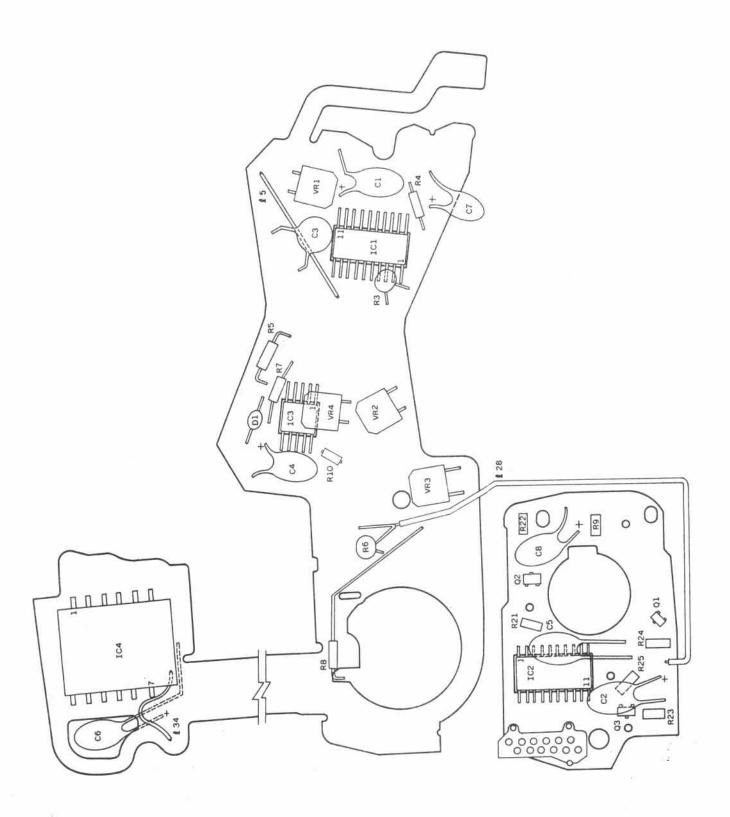


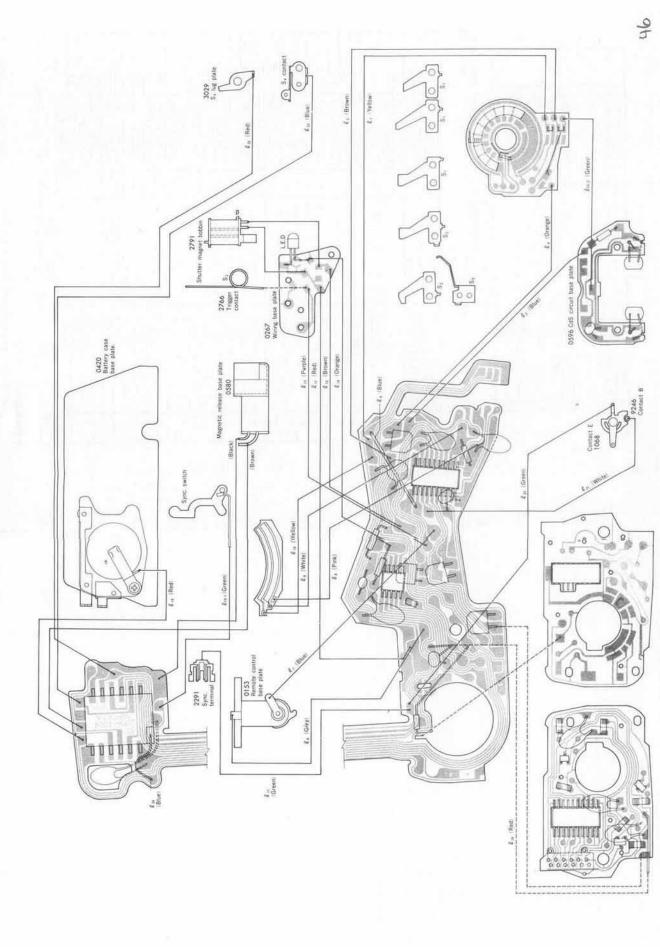


	Part No.	Part Name		Qty
	2006-0207-11	X contact plate set	X 接片セット	1
	2006-0209-11	Shutter base plate set	シャッター台板セット	1
	2006-0211-12	Control base plate set	制御台板セット	1
	2006-0253-11	2nd curtain release lever set	二幕解除レバーセット	1
	2006-0258-43	lst curtain brake lever set	一幕プレーキレバーセット	1
	(2006-2185-01)	Brake lever isolation collar	一幕プレーキ絶縁カラー	1
	2006-0259-13	2nd curtain brake lever set	二幕プレーキレバーセット	1
	(2006-2192-04)	2nd curtain brake spring	二幕プレーキSP	1
	2006-0267-21	Wiring base plate set	Mg 配線基板セット	1
	2006-2104-01	Charge gear-B	チャージギヤーB	1
	2006-2105-02	Charge gear-A	チャージギヤーA	1
	2006-2106-04	1st curtain shutter gear	一幕シャッターギャー	1
	2006-2183-03	lst curtain brake spring-B	一幕プレーキ SP-B	1
	2006-2184-04	2nd curtain brake spring	制御カム係止レバーSP	1
	2006-2189-05	X lever spring	X レバーSP	1
	2006-2196-01	2nd curtain brake return spring	二幕プレーキ戻しSP	1
	2006-2197-01	Brake lever axis collar	二幕プレーキ消音カラー	1
	2006-2214-01	Tape	幕緑金保護テープ	1
	2006-2749-01	Shutter magnet core	シャッターマグネット鉄芯	1
	2006-2757-01	2nd curtain release lever spring	二幕解除レバーSP	1
	2006-2758-01	Over charge spring	吸着片オーバーチャージSP	1
	2006-2762-01	Magnet collar	マグネット取付カラー	1
	2006-2766-03	Trigger contact	トリガー接片	1
	2006-2768-01	Trigger base plate screw	止めねじ	1
	2006-2773-03	Trigger contact operation lever	トリガー接片作動レバー	1
	2006-2791-01	Shutter magnet bobbin	シャッターマグネットポピン	1
	9611-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
	9612-1618-01	Phillips type screw	十字穴付なべ頭小ねじ	1
	9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
	9721-0120-13	E-ring	Eリング	1
	9721-0150-13	E-ring	E リング	2
0	9353-2642-01	L.E.D (TLR108)	L.E.D (LD13)	1

◎L.E.D はシャッタープロックに含まれません。 ◎ The LED is excluded on the shutter block. 18

XG-I(n) CODE No. 2007-300





Symbol		Part No.	Com	Part Name	Type.	Qty.
1	C1	2006-4301-03			M51865	1
1	IC2	2006-4302-03		I C	M51866	1
	C3	2006-4303-03		I C	M51867	1
	C4	2006-4304-07			HIC	1
	01	9361-5631-01		Diode	KB162	1
Q3 Q2 C	21	9363-1032-01	02,03	Transistor	2SA1162	3
		9431-1037-31			1/16W 10KΩ	1
F	35	9422-1046-32			1/8W 100KΩ	1
R3 R5 R6 R7 R8 	9431-3047-31			1/16W 300KΩ	1	
	9422-6806-32		Fixed resistor	1/8W 68Ω	1	
		9422-3916-32 9422-8216-32	TXEG LESTSTON	1/8W 390Ω)	
R8	9422-8216-32			1/8W 82OΩ	1	
	9422-1826-32			1/8W 1.8KΩ	1	
	9422-3326-32			1/8W 3.3KΩ		
Q2	24	2006-8408-01		Lead wire Pink	60.08/7wires L=35mm	2
F	R9	9422-3016-62			1/8W 300Ω	1
R25 R	10	9422-2416-62			1/8W 240Ω	2
R23 R2	21	9422-3036-62		Fixed reisstor	1/8W 30KΩ	2
R24 R2	22	9422-1036-62		rixed reission	1/8W 10KΩ	2
VF	R1	9472-2049-38			VG062K 200KΩ	1
VR3 VI	R2	9472-1539-38		Variable resistor	VG062K 15KΩ	2
VI	R4	9472-1529-38			VG062K 1.5KΩ	1
	C1	9535-1555-36	1		1.5µF/35V	1
	C2	9535-6845-31			0.68µF/35V	1
	C3	9563-4738-31			0.047µF/12V	1
	C4	9531-2265-31		Condenser	22µF/3.15V	1
	C5	9531-4765-31		Condense	47µF/3.5V	1
	C6	9531-1575-61			150µF/3.15V	1
		9534-1555-33	or		1.5µF/25V	1
	C7	9534-1555-63	or		1.5µF/20V	1/1
		9535-1555-31	O.		1/5µF/35V)
	C8	9531-3365-61			33µF/3.15V	1
1	25	2006-8403-01		Blue	ØO.08/7wires £=27mm	
Q	28	2006-8411-01		Lead wires Red	Ø0.08/7wires ℓ=45mm	-
Q	34	2006-8403-01		Blue	Ø0.08/7wires ℓ=20mm	1

☐ The R4 is excluded on the Flexible P.C. board set

	R4は0402	1-	1 . 1. 1.	1 1	IT It for it	ルナル/
	R4/TU4UZ	1	レキセッ	F 1	VC VI A I	ルエモル
_	20014	1 .	,		I - I con this con	40 - 40 -

	9422-2036-39		1/8W 20KΩ	1
	9422-2236-39		1/8W 22KΩ	1
	9422-2436-39		1/8W 24KΩ	
	9422-2736-39	Fixed resistor (for adjustment)	1/8W 27KΩ	
	9422-3036-39		1/8W 30KΩ	
	9422-3336-39		1/8W 33KΩ	
R4	9422-3936-39		1/8W 39KΩ	
	9422-4736-39		1/8W 47KΩ	
	9422-5636-39		1/8W 56KΩ	
	9422-6836-39		1/8W 68KΩ	
	9422-1046-39		1/8W 100ΚΩ	
	9422-2046-39		1/8W 200KΩ	-

Lead wires list

6-8401-01 6-8402-01 6-8403-01 6-8404-01 6-8403-01 6-8406-01 6-8403-01 6-8409-01 6-8401-01 6-8401-01 6-8402-01 6-8403-01 6-8403-01	Yellow Brown Blue Orange Blue Grey Blue Pink White Yellow Red Brown Purple	## ## ## ## ## ## ## ## ## ## ## ## ##	\$\mathbb{l} = 70\$ \$\mathbb{l} = 70\$ \$\mathbb{l} = 45\$ \$\mathbb{l} = 40\$ \$\mathbb{l} = 27\$ \$\mathbb{l} = 110\$ \$\mathbb{l} = 75\$ \$\mathbb{l} = 85\$ \$\mathbb{l} = 95\$ \$\mathbb{l} = 110\$ \$\mathbb{l} = 100\$ \$\mathbb{l} = 100\$	1 1 1 1 1 1 1 1 1 1
6-8403-01 6-8404-01 6-8403-01 6-8406-01 6-8403-01 6-8409-01 6-8401-01 6-8411-01 6-8413-01	Blue Orange Blue Grey Blue Pink White Yellow Red Brown Purple	## ## ## ## ## ## ## ## ## ## ## ## ##	\$\mathbb{l} = 45\$ \$\mathbb{l} = 40\$ \$\mathbb{l} = 27\$ \$\mathbb{l} = 110\$ \$\mathbb{l} = 75\$ \$\mathbb{l} = 85\$ \$\mathbb{l} = 95\$ \$\mathbb{l} = 110\$ \$\mathbb{l} = 100\$	1 1 1 1 1 1 1 1
6-8404-01 6-8403-01 6-8403-01 6-8403-01 6-8408-01 6-8409-01 6-8401-01 6-8411-01 6-8413-01	Orange Blue Grey Blue Pink White Yellow Red Brown Purple	## ## ## ## ## ## ## ## ## ## ## ## ##	\$\mathbb{L} = 40\$ \$\mathbb{L} = 27\$ \$\mathbb{L} = 110\$ \$\mathbb{L} = 118\$ \$\mathbb{L} = 75\$ \$\mathbb{L} = 85\$ \$\mathbb{L} = 95\$ \$\mathbb{L} = 110\$ \$\mathbb{L} = 100\$	1 1 1 1 1 1 1 1
6-8403-01 6-8406-01 6-8403-01 6-8408-01 6-8409-01 6-8401-01 6-8411-01 6-8402-01 6-8413-01	Blue Grey Blue Pink White Yellow Red Brown Purple	## ## ## ## ## ## ## ## ## ## ## ## ##	\$\mathbb{L} = 27\$ \$\mathbb{L} = 110\$ \$\mathbb{L} = 118\$ \$\mathbb{L} = 75\$ \$\mathbb{L} = 85\$ \$\mathbb{L} = 95\$ \$\mathbb{L} = 110\$ \$\mathbb{L} = 100\$	1 1 1 1 1 1 1
6-8406-01 6-8403-01 6-8408-01 6-8409-01 6-8401-01 6-8411-01 6-8402-01 6-8413-01	Grey Blue Pink White Yellow Red Brown Purple	<pre>00.08/7 wires 00.08/7 wires</pre>	\$\mathcal{L} = 110\$ \$\mathcal{L} = 118\$ \$\mathcal{L} = 75\$ \$\mathcal{L} = 85\$ \$\mathcal{L} = 95\$ \$\mathcal{L} = 110\$ \$\mathcal{L} = 100\$	1 1 1 1 1 1
6-8403-01 6-8408-01 6-8409-01 6-8401-01 6-8411-01 6-8402-01 6-8413-01	Blue Pink White Yellow Red Brown Purple	<pre>00.08/7 wires 00.08/7 wires 00.08/7 wires 00.08/7 wires 00.08/7 wires 00.08/7 wires</pre>	\$\mathbb{l} = 118\$\$\$\mathbb{l} = 75\$\$\$\$\mathbb{l} = 85\$\$\$\$\mathbb{l} = 95\$\$\$\$\mathbb{l} = 110\$\$\$\$\$\mathbb{l} = 100\$\$\$\$\$\$\$\$\$	1 1 1 1 1
6-8408-01 6-8409-01 6-8401-01 6-8411-01 6-8402-01 6-8413-01	Pink White Yellow Red Brown Purple	<pre>00.08/7 wires 00.08/7 wires 00.08/7 wires 00.08/7 wires 00.08/7 wires</pre>	\$\mathcal{L} = 75\$\$\$\mathcal{L} = 85\$\$\$\$\mathcal{L} = 95\$\$\$\$\mathcal{L} = 110\$\$\$\$\$\$\$\$\$\mathcal{L} = 100\$\$\$\$\$\$\$\$	1 1 1 1
6-8409-01 6-8401-01 6-8411-01 6-8402-01 6-8413-01	White Yellow Red Brown Purple	<pre>00.08/7 wires 00.08/7 wires 00.08/7 wires 00.08/7 wires</pre>	l = 85 l = 95 l = 110 l = 100	1 1 1
6-8401-01 6-8411-01 6-8402-01 6-8413-01	Yellow Red Brown Purple	<pre>00.08/7 wires 00.08/7 wires 00.08/7 wires</pre>	<pre>\$\mathcal{L} = 95\$ \$\mathcal{L} = 110\$ \$\mathcal{L} = 100\$ </pre>	1 1 1
6-8411-01 6-8402-01 6-8413-01	Red Brown Purple	<pre>00.08/7 wires 00.08/7 wires</pre>	£ =110 £ =100	1
6-8402-01 6-8413-01	Brown Purple	Ø0.08/7 wires	L =100	1
6-8413-01	Purple			
	THE ATTEMPT AND A CO.	Ø0.08/7 wires	l =100	1 1
6-8404-01	0			1
	Orange	Ø0.08/7 wires	<pre>ℓ =115</pre>	1
6-8417-01	Green	Ø0.08/7 wires	l =144	1
6-8411-01	Red	00.08/7 wires	ℓ =60	1
6-8417-01	Green	Ø0.08/7 wires	ℓ =65	2
6-8409-01	White	Ø0.08/7 wires	ℓ =65	1
6-8417-01	Green	Ø0.08/7 wires	L =80	1
6-8411-01	Red	Ø0.08/7 wires	l =45	1
6-8411-01	Red	60.08/7 wires	l =150	1
6-8403-01	Blue	60.08/7 wires	l =150	1
6-8403-01	Blue	Ø0.08/7 wires	Q =20	1
	6-8411-01 6-8403-01	6-8411-01 Red 6-8403-01 Blue	6-8411-01 Red 60.08/7 wires 6-8403-01 Blue 60.08/7 wires	6-8411-01 Red

Measuring instruments

- Standard luminance box (Model L-2101, *L-223)
- EE tester (Model EE-2101, EE-2111)
- SS adaptor for EE tester (Model SD-2101)
- Shutter tester (Model S-2101, *FS-1DMN4)
- Time counter (Model TC-1)
- Digital multimeter (Model 2508, *3476, *2507)
- Camera standard tester (Model ST-5101)
- Constant voltage DC power supply (Model 524B, *E-1, *E-2)

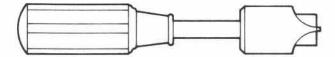
- Mirror angle adjuster (Model MA-Ⅲ, *Ⅱ)
- Rp resistance selector (Model RS-N, *II, *I, *I)
- 1000 mm collimator (Model RC-1000 III, *II, *I)

(Items marked "*" have been discontinued)

Exclusive tools

■ Tool No. 2007-3310-75

Top cover pressure nut spanner





• This is also available for the winding lever pressure (2006-3003) of XG series camera.

■ Tools used in common

■ Tool No. 2006-0101-75

Temporary body

■ Tool No. 2006-0415-75

Battery adapter

■ Tool No. 2006-2020-75

Shutter button pressure spanner

■ Tool No. 2006-2291-75

Sync. terminal spanner

■ Tool No. 2006-3003-75

Winding lever pressure

■Tool No. 2006-3013-75

Top cover set nut B spanner

■ Tool No. 2006-3309-75

Temporary nut

■ Tool No. 054- 5202- 79

Master lens for 054 finder back adjustment

Sub materials

Grease

Oil

012

- #3340#335
- #1150D
- LOSIMOL ELT-BAE

Adhesives

BOND G 17

• 3-BOND 1401B

(for screw lock)

- LOCTITE #242
- SILICON BOND KE-441RTV

Flat plate (for 2005)

■ Body back gauge (43.70 mm)

Cleaner

FLONSOLVE

Dial gauge

MINOLTA XG-A 2013-300 (For Export)

TYPE OF CAMERA

35 mm single-lens reflex with automatic aperturepriority exposure control

SHUTTER

Horizontal-traverse focal-plane type, electronically controlled speeds.

Shutter speed: 1/1000 to 1 sec., steplessly on

automatic mode B (bulb), X (1/60)

Shutter dial : Click-stops and lock at "AUTO"

(zero setting)

Up to ±2 Ev continuous adjustment of automatic exposure with 1/2 Ev.

Self-timer : Electronic, LED indicated types;

approximately 10 sec. delay

Flash sync : Hot shoe for X sync: Electronic

flash synchronizes at 1/60 sec. Extra contact on hot shoe receives signal from camera-control contact of the X-series Auto Electroflashes

FILM ADVANCE

Film winding : By lever with single 130° stroke

after 30° unengaged movement Film-advance release button for rewinding, advancing-type frame counter and Safe Load Signal that indicates film loading and advanc-

ing conditions

Auto winding : Through built-in coupler key with

accessory Auto Winder G

: 4-slot take-up spool. Spool

Film counter : Auto resetting calculation.

VIEWFINDER

Type : Eye-level fixed pentaprism type Viewfinder vision: 93% (standard 24 mm × 36 mm

imagefield).

Magnification : 0.87× (50 mm standard lens at ∞)

Visibility : -1 diopt

Viewfinder indication : Acute Matte focusing screen

with central horizontally oriented split-image focusing spot surrounded by microprism band, stepless speeds indicated by 7 lightemitting diodes; LED over-/ under-range indicators; LED at "60" position also blinks as flash-ready signal with the X-series Auto Electro-

flashes.

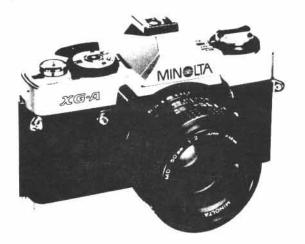
: Oversize quick-return type Mirror

EXPOSURE CONTROL

Light-Metering system : Full-aperture TTL centerweighted averaging type.

Receiver element : By two CdS cells mounted on

either side of the eyepiece at the rear of the pentaprism



Auto-exposure control : Special low-voltage, lowcurrent computer circuit, actuated by contact or pressure on "touch switch" operating button, varies the shutter speed continuously and steplessly to yield proper exposure according to metering system indication at the aperture, film speed, and exposure adjust-

ment set.

Auto-exposure range : Ev 2 to Ev 17 (e.g., 1/2 sec.

at f/1.4 to 1/1000 at f/11) at ASA 100 with f/1.4 lens

Film-speed range: ASA 25 to 1600 set on the

shutter-function selector

Power : Two 1.5V alkaline-manganese

(Eveready A-76 or equivalent) or 1.55V silver-oxide (Eveready EPX-76/S-76 or equivalent) cells contained in camera base power both auto exposure control and shutter's electronically governed operation. LED battery check-indicator lights when operating switch in battery

check position

Shutter will not release when voltage too low for proper operation

ACCESSORIES

- · Exclusive Auto Winder G
- · Auto Electroflash 320X, 200X, 132X and 118X
- · Wireless Controller IR-1
- Remote Cord S 50 cm (20-in.) and Remote Cord L
- · MD, MC and other interchangeable Minolta lenses and applicable Minolta SLR system accessories

SIZE AND WEIGHT

: 52 (D) × 88 (H) × 138 (W) mm Size

 $(2 \times 3 - 7/16 \times 5 - 5/8 \text{ in.})$

: 485 g (17-1/8 oz.) Weight

without lens and power cells

Part No.	Page	Part No.	Page	Part No.	Page
2006-0120	6	2006-0271	16	※ 2013-0403	19
2006-0140	4	2013-0272	16	2006-0415	1
2006-0151	9	2006-0273	16	2006-0416	1
2006-0152	9	2006-0274	16	2006-0420	5
2006-0153	9	2007-0277	16	2006-0440	1
※ 2013-0160	2	2006-0281	1		
※ 2013-0170	2	2013-0291	1	2006-0503	11
※ 2013-0173	6	2013-0295	1	2009-0505	7
* 2013-0191	4			2009-0510	7
		2019-0310	14	2006-0521	11
2006-0207	18	2006-0325	13	2006-0522	10
2006-0209	18	2019-0326	14	2006-0523	10
2006-0211	18	2006-0338	13	2019-0524	10
2006-0215	17	2019-0340	14	2006-0527	9
2006-0218	17	2006-0350	14	2009-0531	10
2006-0222	17	2019-0360	14	2009-0532	10
2006-0229	17	2006-0375	1	2009-0542	10
2006-0242	17	2019-0381	12	2006-0558	11
2017-0253	18	2006-0384	12	2006-0561	11
2006-0258	18	2006-0385	12	2006-0562	11
2006-0259	18	2019-0396	1	2019-0580	8
2006-0267	18			2006-0586	6

W: Parts for only 2013-300(XG-A)

※印パーツは2013-300 (XG-A) 専用パーツ

Part No.	Page	Part No.	Page	Part No.	Page
2007-0592	7	2006-1054	2	2006-2008	16
2013-0596	3	2005-1061	6	2013-2009	16
		2005-1062	6	2006-2012	16
2006-1006	9	2005-1063	6	2006-2014	1
2019-1007	1	2006-1064	6	2006-2015	16
2006-1008	9	2007-1074	6	2006-2016	16
2006-1009	1			2006-2017	16
2005-1010	6	2007-1105	15	2013-2018	1
2006-1011	6	2007-1106	4	2019-2020	1
2006-1012	-13,15	2006-1110	15	2006-2022	1
2006-1014	9	2006-1111	15	2019-2023	1
2006-1018	2	2006-1112	15	2006-2035	8
2006-1019	3	2006-1116	4		
2006-1020	-13,15	2006-1119	4	2006-2104	18
2009-1025	9			2006-2105	18
0031-1027	-13,15	2013-1358	1	2006-2106	18
0031-1034	-13,15			2006-2114	17
2006-1041	15	¥2013-1410	3	2006-2130	17
2006-1042	15	※ 2013-1411	3	2006-2131	17
2006-1043	15	※ 2013−1412−−−	4	2006-2132	17
2006-1052	2			2006-2143	17
2006-1053	2	2013-2005	1	2006-2144	17

Part No.	Page	Part No.	Page	Part No.	Page
2006-2147	17	2006-2773	18	2006-3052	13
2006-2148	17	2006-2791	18	2006-3053	13
2006-2183	18			2006-3055	13
2006-2184	18	2006-3003	1	2006-3056	14
2006-2185	18	2006-3004	1	2006-3057	14
2006-2189	18	2006-3009	14		
2006-2192	18	2005-3010	1	2019-3301	1
2006-2196	18	2006-3010	5	2019-3303	1
2006-2197	18	2006-3012	14	% 2013−3304−−−−−	15
2006-2214	18	2006-3013	1	2019-3306	1
		2006-3020	14	2006-3308	15
2006-2707	17	2006-3021	14	2006-3309	15
2006-2708	17	2019-3024	5	2006-3310	1
2006-2718	17	2006-3027	14	2019-3311	1
2006-2723	17	2006-3028	14	2006-3312	15
2006-2726	17	2006-3029	14		
2006-2749	18	2006-3032	13	2006-3404	12
2006-2757	18	2006-3037	13	2019-3407	12
2006-2758	18	2006-3040	14	2006-3408	12
2006-2762	18	2006-3041	13	2006-3410	12
2006-2766	18	2006-3042	13	2006-3411	12
2006-2768	18	2017-3051	14	2006-3412	12

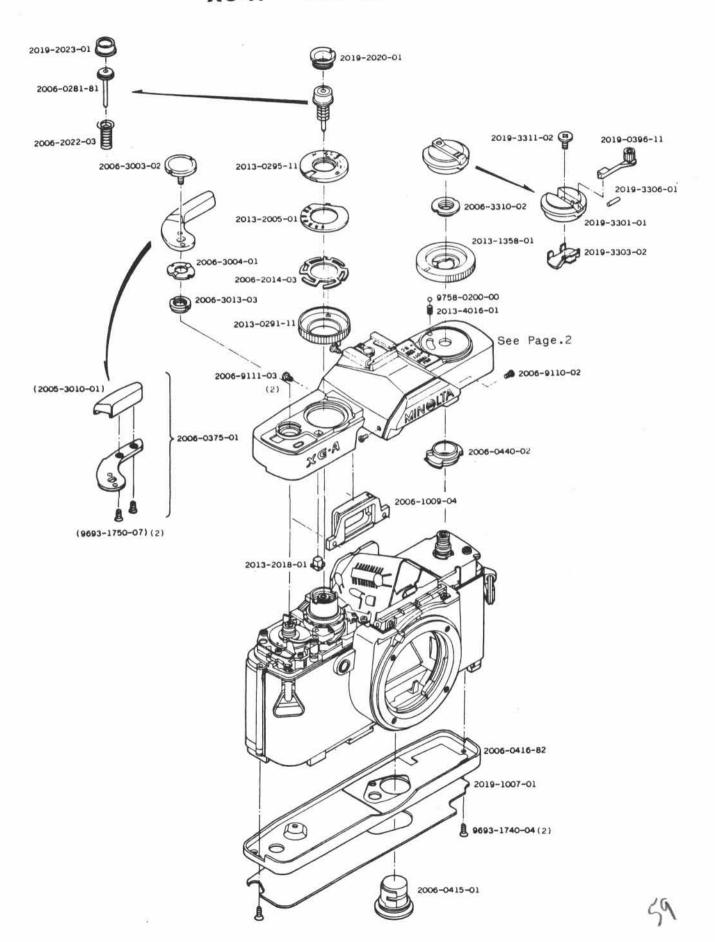
Part No.	Page	Part No.	Page	Part No.	Page
2006-3414	12	2006-5006	3	2006-5042	10
2006-3415	13	2006-5008	3	2006-5044	10
2019-3416	13	2006-5011	7	2006-5046	10
2006-3421	13	2006-5013	7	2009-5051	10
		2006-5014	7	2009-5058	10
2013-4016	1	2006-5015	7	2009-5081	11
2006-4017	2	2006-5016	7		
2019-4022	6	2019-5017	7	2006-5110	11
2006-4025	3	2006-5018	7	2006-5111	11
		2006-5019	11	2006-5112	11
2006-4216	5	2006-5021	11	2006-5113	11
2006-4253	16	2006-5023	11	2006-5114	11
2006-4254	3	2006-5024	7	2006-5116	11
2006-4255	9	2007-5026	3	2006-5117	11
2013-4256	2	2006-5027	11	2006-5118	11
2006-4260	3	2006-5028	11	2006-5119	11
2005-4270	16	2006-5029	11	2006-5120	11
		2006-5030	11		
2006-4301	19	2006-5031	7	2007-5801	3
2006-4302	19	2006-5032	7	2007-5803	7
2006-4303	19	2009-5035	7	2009-5805	7
2006-4304	19	2006-5038	9	2019-5806	11
		2006-5039	7		

Part No.	Page	Part	No.	Page	Part	No.	Page
2006-8401	20	2006-	-9111	1	9612	-1620-01	17,18
2006-8402	20	2006-	-9113	5	9612	-1625-07	8
2006-84031	9,20	2006-	-9121	15	9612	-1628-07	6,8
2006-8404	20	2006-	-9131	-3,5	9612	-1635-07	6
2006-8406	20	2006-	-9132	5	9612	-1675-07	16
2006-84081	9,20	2006-	-9133	5	9612-	-1685-07	3
2006-8409	20				9613-	-1418-07	12
2006-8411	20	2013-	9246	2	9613-	-1645-07	8
2006-8413	20	2006-	9401	15	9613-	-1650-01	2
2006-8417	20	2006-	9409	15			
					9615-	-1416-01	17
2006-9004	8	Screw	ī		9615-	-1420-01	17
2006-9005	9	9611-	1616-12	11	9615-	-1625-02	17
2006-9011	14	9611-	1620-01	18	9622-	-1630-01	7
2006-9012	14	9611-	1625-07	-8,9			
		9611-	1630-04	15	9693-	-1740-04	1
2006-9103	9	9611-	2032-04	6	9693-	-1750-07	1
2006-9105	16	9611-	2090-0713	3,15	9695-	-1740-07	-3,7
2006-91061	1,13						
2006-9107	9	9612-	1616-076,9	9,11	9761-	-1728-07	14
2019-9108	14				9761-	-2040-07	13
2006-9110	-1,5	9612-	1618-01	18	9761-	-2050-07	15

Part No.	Page	Part No.	Page	Part No.	Page
9761-2055-07	12	9794-3858-20	11	9422-2046-39	19
				9422-2216-32	3
9762-1740-075	7,15	L.E.D		9422-2236-39	19
9762-1745-07	-3,12	9353-2642-01	18	9422-2416-62	19
9762-2040-07	14			9422-2436-39	19
9762-2050-07	14	Diode		9422-2716-32	3
		9361-5631-01	19	9422-2736-39	19
E-ring					
9721-0080-13	11	Transistor		9422-3016-62	19
9721-0120-13		9363-1032-01	19	9422-3036-39	19
9721-0150-13	10,11 17,18				
9721-0200-13	13	Fixed resistor		9422-3316-32	3
		9422-1026-32	3	9422-3326-32	19
Steel ball				9422-3336-39	19
9758-0200-00	1	9422-1046-32	19	9422-3916-32	3,19
		9422-1046-39	19	9422-3936-39	19
Washer		9422-1226-32	3		
9792-2050-40	10	9422-1516-32	3	9422-4716-32	3
9793-1635-40	17	9422-1526-32	3	9422-4736-39	19
9793-1840-86	3	9422-1826-32	-3,19	9422-5616-32	3
9793-2038-50	14			9422-5636-39	19
9793-2140-40	10	9422-2036-39	19	9422-6806-32	19
9793-2250-40	17				

Part No.	Page	Part No.	Page
9422-6816-32	3	Condenser	
9422-6836-39	19	9531-1575-61	-19
9422-8216-32	-3,19	9531-2265-31	-19
		9531-3365-31	-19
9431-1037-31	19	9531-4765-31	-19
9431-1057-31	3		
9431-1257-31	3	9534-1555-33	-19
9431-1557-31	3	9534-1555-63	-19
9431-3047-31	19	9535-1555-31	-19
9431-3347-31	3	9535-1555-36	-19
9431-3947-31	3	9535-6845-31	-19
9431-4747-31	3	9563-4738-31	-19
9431-5647-31	3		
9431-6847-31	3		
9431-8247-31	3		
Variable resistor	\$7		
9472-1059-38	19		
9472-1529-38	19		
9472-1539-38	19		

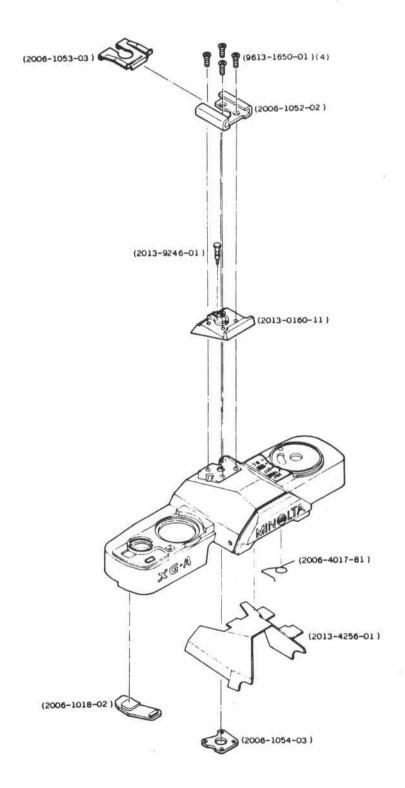
XG-A CODE No. 2013-300



Part No.	Part Name		Qty
2006-0281-81	Shutter release button set	シャッター釦軸セット	1
2013-0291-11	Shutter speed dial/Function sele	ector シャッターダイヤルセッ	11
2013-0295-11	Shutter speed dial	シャッターダイヤル銘板	1
2006-0375-01	Film advance lever set	巻上レバーセット	1
(2005-3010-01)	Film advance lever knob	巻上レパー指当て	1
(9693-1750-07)	Tap tite screw	十字穴付タッピングねじ	2
2019-0396-11	Rewinding handle set	巻戻しハンドルセット	1
2006-0415-01	Battery holder set	電池ケース蓋	1
2006-0416-82	Bottom cover set	下カバーセット	1
2006-0440-02	Self-timer change holder set	セルフ切換接片ホルザーセッ	١ ١
2019-1007-01	Sheet	下カバー保護シート	1
2006-1009-04	Eye-piece lens frame	接眼枠	1
2013-1358-01	Self-timer dial	セルフダイヤル	1
2013-2005-01	ASA dial	ASA 銘板	1
2006-2014-03	ASA spring	ASA スプリング	1
2013-2018-01	Auto lock button	オートロック釦	1
2019-2020-01	Shutter release button pressure	シャッター釦押え	1
2006-2022-03	Shutter release button spring	シャッター釦スプリング	1
2019-2023-01	Shutter release button cap	シャッター釦キャップ	1
2006-3003-02	Winding lever pressure	巻上レバー押え	1
2006-3004-01	Winding lever friction	巻上レパーフリクション	1
2006-3013-03	Top cover set nut-B	上カバー止めナット	1
2019-3301-01	Rewinding knob	巻戻しノブ	1
2019-3303-02	Rewinding handle spring	巻戻しバネ	1
2019-3306-01	Rewinding handle axis	巻戻しハンドル軸	1
2006-3310-02	Top cover pressure nut	上カバー押えナット	1
2019-3311-02	Rewinding knob screw	巻戻しノブビス	1
2013-4016-01	Self-timer dial click spring	セルフダイヤルクリックSP	1
2006-9110-02	Screw-A	特殊止めビス	2
2006-9111-03	Screw-B	特殊止めピス	2
9693-1740-04	Phillips type tapping screw	十字穴付タッピングねじ	2
9758-0200-00	Steel ball	スチールボール	1

XG-A CODE No. 2013-300

Assy. Part No. 2013-0170-11

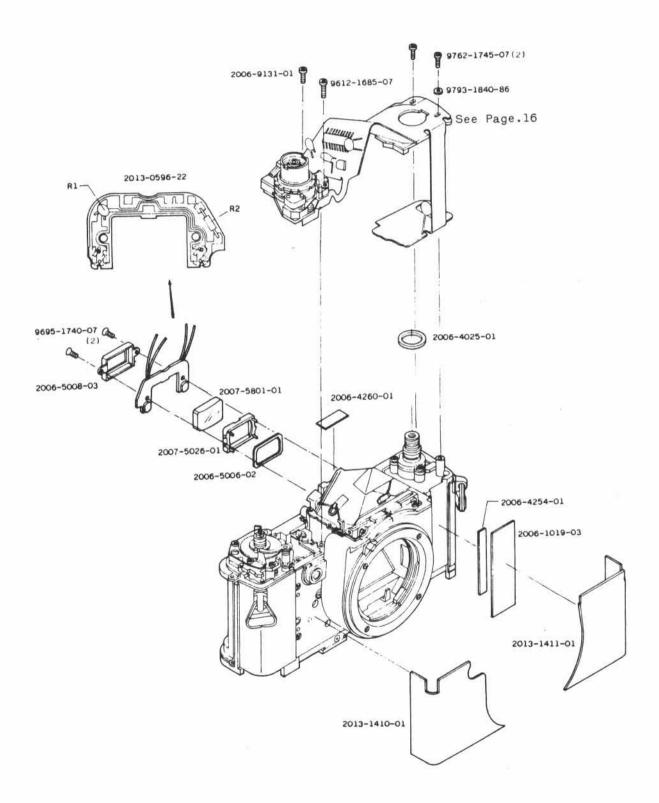


Part No.	Part Name		Qty
※ 2013-0170-11	Top cover set	上カバーセット	1
 ₩(2013-0160-11)	Accessory shoe base set	アクセサリーシュー座	1
(2006-1018-02)	Counter window	カウンター窓	1
(2006-1052-02)	Accessory shoe	アクセサリーシュー	1
(2006-1053-03)	Accessory shoe spring	アクセサリーシューバネ	1
(2006-1054-03)	Accessory shoe set plate	アクセサリーシュー取付板	1
(2006-4017-81)	Self-timer return spring-B	セルフダイヤル戻しSP	1
(2013-4256-01)	Top cover isolation sheet	上カバー絶縁シート	1
(2013-9246-01)	Contact-B	コンタクト接片B	1
(9613-1650-01)	Phillips type screw	十字穴付小ねじ	4

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XG-A CODE No. 2013-300





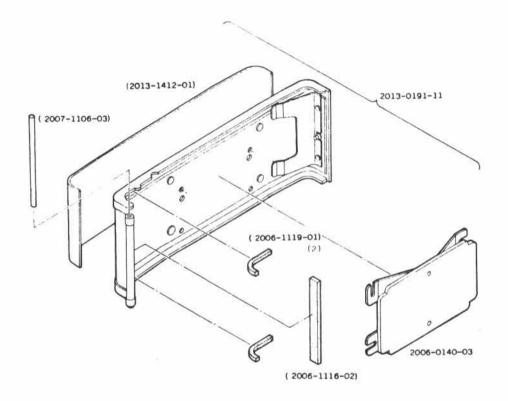
	Part No.	Part Name		Qty
	2013-0596-22	CdS circuit base plate set	CdS 基板セット	1
	2006-1019-03	Body leather	ポデー貼板	1
×	(2013-1410-01	Right side leather	ポデー貼皮 (右)	1
×	€2013-1411 - 01	Left side leather	ポデー貼皮 (左)	1
	2006-4025-01	Contact receiver	セルフ切換接片ホルダー受	1
	2006-4254-01	Tape-A (5X45mm)	フレキ接着テープ	1
	2006-4260-01	Isolation tape-A (4.5X15mm)	艳緑紙	1
	2006-5006-02	Eye-piece lens light shield frame	接眼レンズ遮光枠	1
	2006-5008-03	Eye-piece lens pressure	接眼レンズ押え	1
	2007-5026-01	Eye-piece lens holder	接眼レンズホルダー	1
	2007-5801-01	Eye-piece lens	接眼レンズ	1
	2006-9131-01	Battery case set screw-A	特殊止めビス	1
	9612-1685-07	Phillips type screw	十字穴付小ねじ	1
	9695-1740-07	Phillips type screw	十字穴付小ねじ	2
	9762-1745-07	Tap tite screw	十字穴付タップタイトねじ	2
	9793-1840-86	Washer	薄ワッシャー	1

 $\mathbf{X}: \mathsf{Parts} \ \mathsf{for} \ \mathsf{only} \ \mathsf{2013-300}(\mathsf{XG-A})$

※印は2013-300 (XG-A) 専用部品

Symbol	Part No.	Part Name	Type.	Qty
R1	9431-3347-31		1/16W, 330K Ω	1
	9431-3947-31		1/16W, 39OK Ω	1
	9431-4747-31		1/16W, 47OK Ω	1
	9431-5647-31		1//6W, 570K Ω	1
	9431-6847-31		1/16W, 68OK Ω	1 > 1
	9431-8247-31		1/16W, 82OK Ω	1
	9431-1057-31		1/16W, 1M Ω	1
	9431-1257-31		1/16W, 1.2M Ω	1
	9431-1557-31		1/16W, 1.5M Ω.	1
R2	9422-1516-32	Fixed resistor	1/8W, 150 Ω	1
	9422-2216-32		1/8W, 220 Ω	11
	9422-2716-32		1/8W, 270Ω	11
	9422-3316-32		1/8W, 330Ω	11
	9422-3916-32		1/8W, 390Ω	11
	9422-4716-32		1/8W, 470 Ω	1
	9422-5616-32		1/8W, 560Ω	1 > 1
	9422-6816-32		1/8W, 680Ω	11
	9422-8216-32		1/8W, 820Ω	1
	9422-1026-32		1/8W, 1KΩ	1
	9422-1226-32		1/8W, 1.2KΩ	1
	9422-1526-32		1/8W, 1.5KΩ	1.1
	9422-1826-32		1/8W, 1.8KΩ	† J

XG-A CODE No. 2013-300

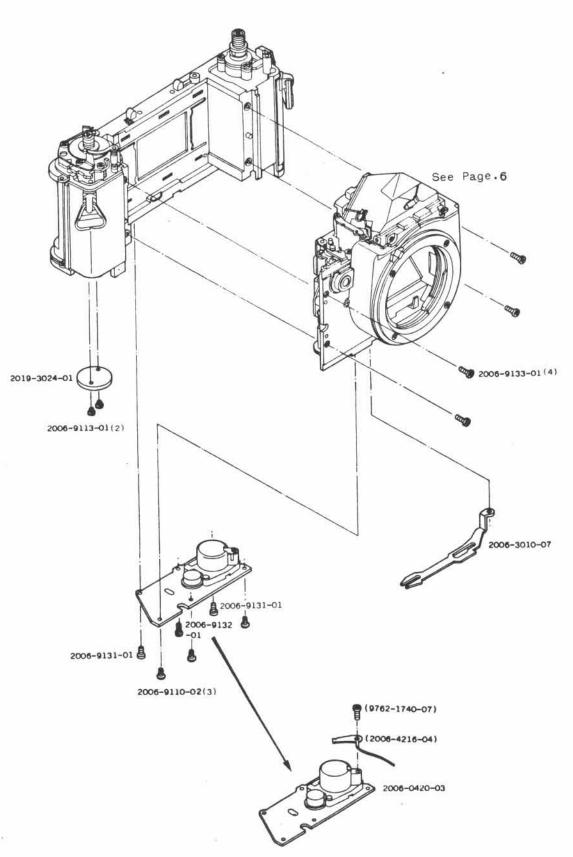




Part No.	Part Name		Qty
※ 2013−0191−11	Back cover set	裏蓋セット	1
(2007-1106-03)	Hinge axis-A	ヒンジ軸 A	1
(2006-1116-02)	Light shield plate	裏蓋遮光片	1
(2006-1119-01)	Light shield plate-B	裏蓋遮光片一B	2
% (2013-1412-01)	Back cover leather	裏蓋貼皮	1
2006-0140-03	Pressure plate set	圧着板セット	1

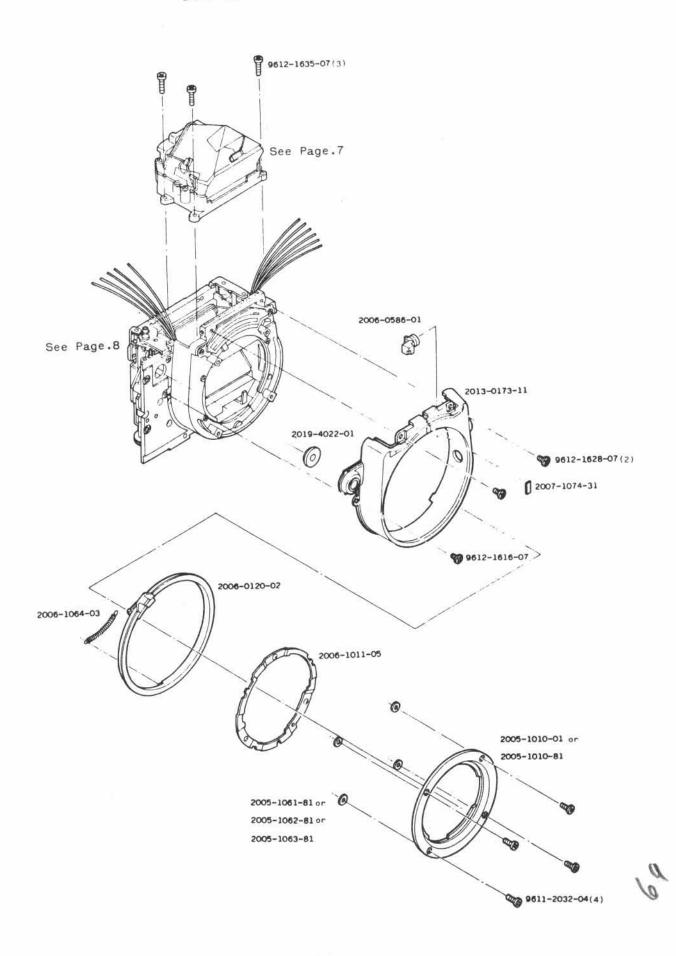
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XG-A CODE No. 2013-300



Part No.	Part Name		Qty
2006-0420-03	Battery case base plate set	電池ケース台板	1
(2006-4216-04)	Plus side contact	電池ケース接片 (+)	1
(9762-1740-07)	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
2006-3010-07	Charge lever	チャージレバー	1
2019-3024-01	Winder coupler	ワインダーカプラー	1
2006-9110-02	Screw-A	止めビス	3
2006-9113-01	Screw	止めビス	2
2006-9131-01	Battery case set screw-A	止めビス	2
2006-9132-01	Battery case set screw-B	止めビス	1
2006-9133-01	Front base plate set screw	止めピス	4

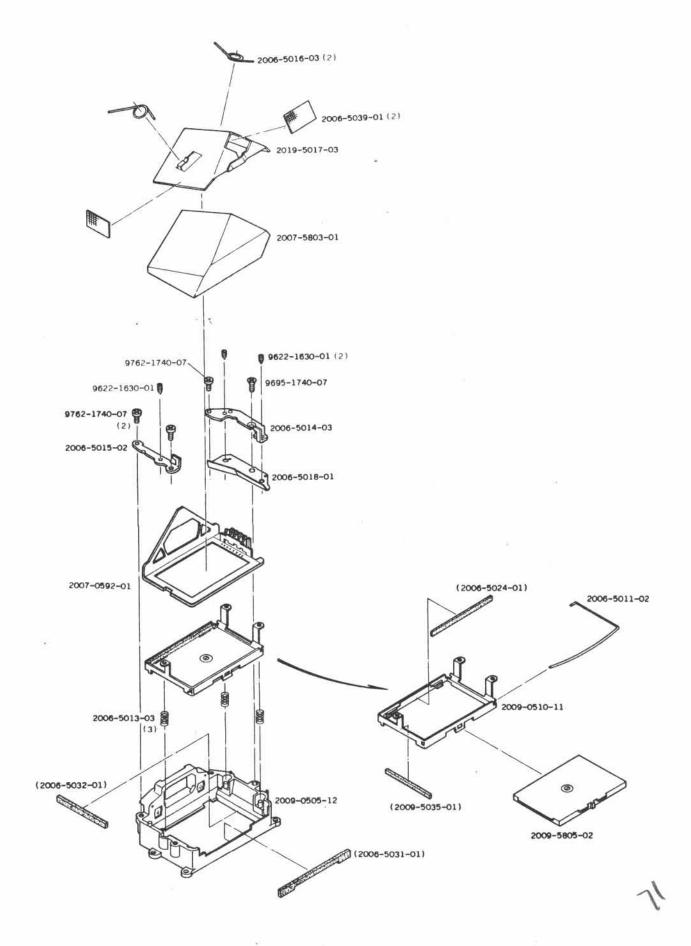
XG-A CODE No. 2013-300



Part No.	Part Name		Qty
2006-0120-02	Aperture coupling ring set	連絡リングセット	1
※ 2013-0173-11	Front cover set	前カバーセット	1
2006-0586-01	Lens lock button set	レンズロック釦セット	1
2005-1010-01	Bayonet lens mount	パヨネット座板	٦.
2005-1010-81	Bayonet lens mount (-O.1mm)	バヨネット座板 (-0.1mm)	31
2006-1011-05	Bayonet spring	バヨネットスプリング	1
2005-1061-81	Adjustment washer-A t=0.02	調整ワッシャーA	7
2005-1062-81	Adjustment washer-B t=0.05	調整ワッシャーB	Some
2005-1063-81	Adjustment washer-C t=0.1	調整ワッシャーC .	J
2006-1064-03	Aperture coulping ring spring	連結リングスプリング	1
2007-1074-31	Front cover indication	前カバー指標	1
2019-4022-01	Reflection ring	セルフ表示反射環	1
9611-2032-04	Phillips type screw	十字穴付小ねじ	4
9612-1616-07	Phillips type screw	十字穴付小ねじ	1
9612-1628-07	Phillips type screw	十字穴付小ねじ	2
9612-1635-07	Phillips type screw	十字穴付小ねじ	3

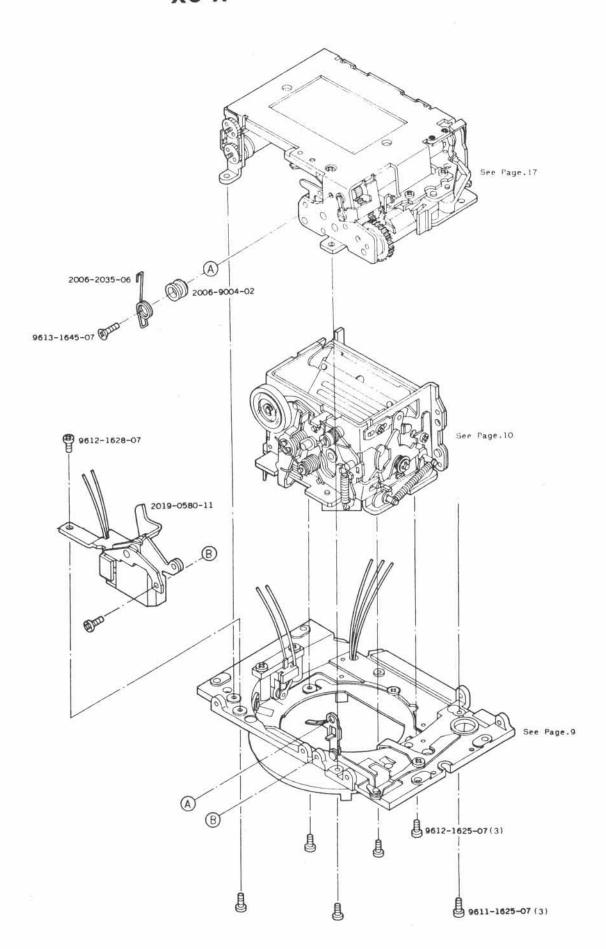
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XG-A CODE No. 2013-300



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Part No.	Part Name		Qty
2009-0505-12	Penta. holder set	ベンターホルダーセット	1
(2006-5031-01)	Packing-A	防塵モルトプレンA	1
(2006-5032-01)	Packing-B	防塵モルトプレンB	1
2009-0510-11	Fresnel lens holder set	焦点板ホルダーセット	1
(2006-5024-01)	Packing-C	防塵モルトプレンC	1
(2009-5035-01)	Shield plate	防塵塩ピシート	1
2007-0592-01	Penta. reciver set	ペンタ受セット	1
2006-5011-02	Fresnel lens pressure spring	焦点板押えSP	1
2006-5013-03	Fresnel lens holder spring	焦点板ホルダーSP	3
2006-5014-03	Penta. pressure (Left side)	ペンタ押え(左)	1
2006-5015-02	Penta. pressure (Right side)	ペンタ押え(右)	1
2006-5016-03	Penta. spring	ベンタ押えSP	2
2019-5017-03	Penta. pressure	ペンタ押え板	1
2006-5018-01	LED diffusion plate	LED 拡散板	1
2006-5039-01	Penta. pressure tape per mete	rペンタ押え板接着テープ	2
2007-5803-01	Penta. prism	ベンタプリズム	1
2009-5805-02	Fresnel lens	焦点板	1
9622-1630-01	Screw	トガリ先止めねじ	3
9762-1740-07	Tap tite screw	十字穴付なべ頭タップタイトねし	3
9695-1740-07	Phillips type tapping screw	十字穴付皿頭タッピングねじ	1

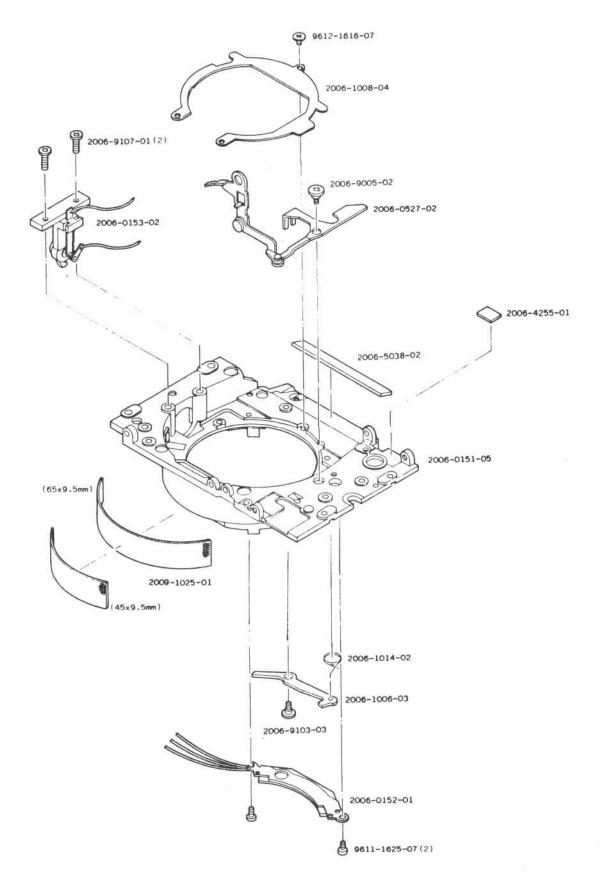
XG-A CODE No. 2013-300



Part No.	Part Name	Qty
2019-0580-11	Magnetic release base plate set レリーズマグネット台板	1
2006-2035-06	Release operation lever spring 吸着用SP	1
2006-9004-02	Release operation lever A setscrew レリーズ連結レバーA軸	1
9611-1625-07	Phillips type screw 十字穴付なべ頭小ねじ	3
9612-1625-07	Phillips type screw 十字穴付なべ頭小ねじ	3
9612-1628-07	Phillips type screw 十字穴付なべ頭小ねじ	2
9613-1645-07	Phillips type screw 十字穴付半丸而頭小わこ	1

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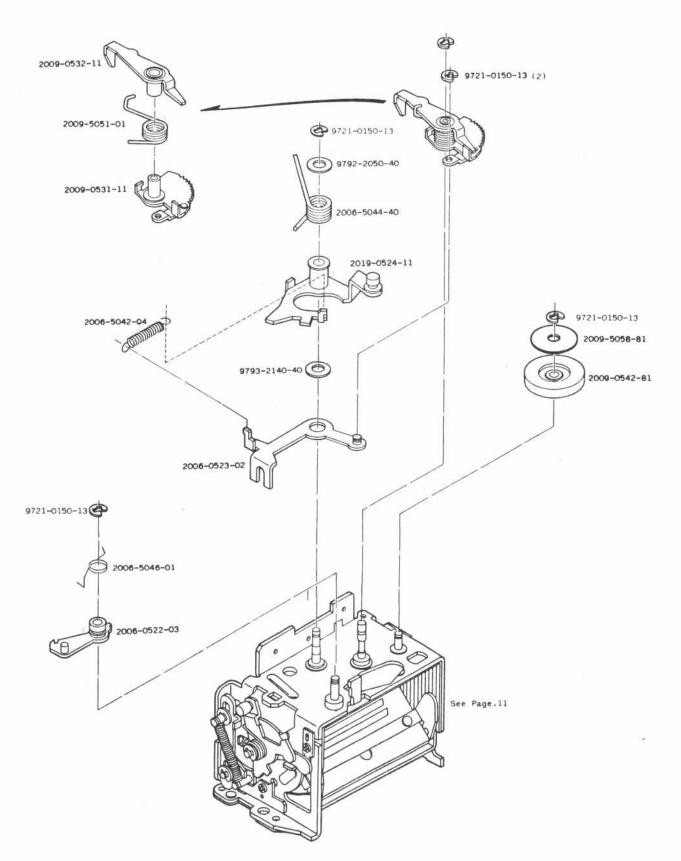
XG-A CODE No. 2013-300



Part No.	Part Name		Qty
2006-0151-05	Front base plate set	前枠セット	1
2006-0152-01	Av resitor set	回路基板Bセット	1
2006-0153-02	Remote control base plate set	リモコン接片基板セット	1
2006-0527-02	Release operation lever-A set	レリーズ連結レバーセット	1
2006-1006-03	Lens lock lever	レンズロックレバー	1
2006-1008-04	Mirror box light shield plate	ミラーポックス遮光板	1
2006-1014-02	Lock lever spring	ロックレバーSP	1
2009-1025-01	Scotch tape	前カバーガタ防止用テーフ	1
2006-4255-01	Tape A (3.8X8)	テープ A	1
2006-5038-02	Pneta. front packing	ペンタ前面押えクッション	1
2006-9005-02	Release operation lever-C setscrew	止めねじ	1
2006-9103-03	Lens lock axis	レンズロック軸	1
2006-9107-01	Screw-D	止めねじ	2
9612-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2

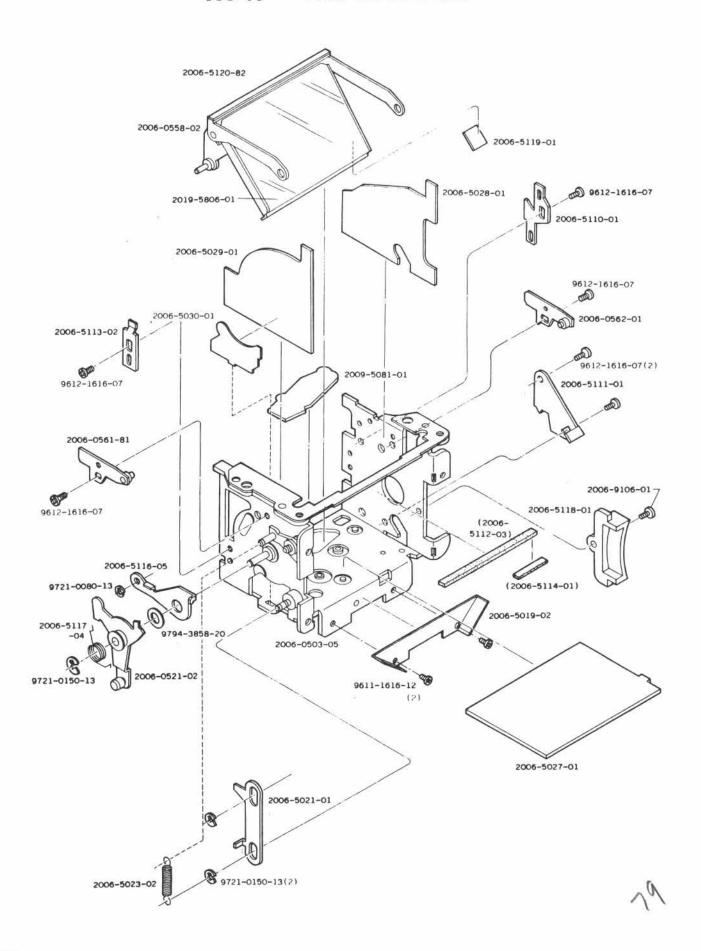
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XG-A CODE No. 2013-300



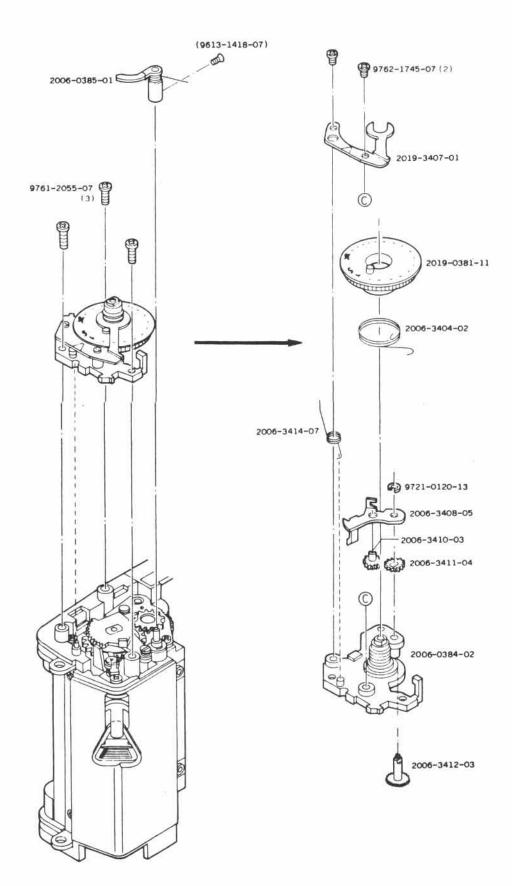
Part No.	Part Name		Qt.
2006-0522-03	Mirror return lever lock claw		1
2006-0523-02	Preset operation lever set	プリセット連動レバーセット	1
2019-0524-11	Mirror return lever set	ミラー戻しレバーセット	1
2009-0531-11	Preset operation plate set	プリセット作動板	1
2009-0532-11	Preset lever set	プリセットレバー	1
2009-0542-81	Fly wheel gear set	フライホールギャー	1
	*		
2006-5042-04	Mirror-up spring	ミラーアップSP	1
2006-5044-04	Mirror return spring	ミラー戻しSP	1
2006-5046-01	Lock claw spring	ロック爪スプリング	1
2009-5051-01	Preset lever spring	プリセットレバーSP	1
2009-5058-81	Fly wheel washer	フライホイールワッシャー	1
9721-0150-13	E-ring	Eリング	5
9792-2050-40	Washer	薄ワッシャー	1
9793-2140-40	Washer	薄ワッシャー	1
	2006-0522-03 2006-0523-02 2019-0524-11 2009-0531-11 2009-0532-11 2009-0542-81 2006-5042-04 2006-5044-04 2006-5046-01 2009-5051-01 2009-5058-81 9721-0150-13 9792-2050-40	2006-0522-03 Mirror return lever lock claw 2006-0523-02 Preset operation lever set 2019-0524-11 Mirror return lever set 2009-0531-11 Preset operation plate set 2009-0532-11 Preset lever set 2009-0542-81 Fly wheel gear set 2006-5042-04 Mirror-up spring 2006-5044-04 Mirror return spring 2006-5046-01 Lock claw spring 2009-5051-01 Preset lever spring 2009-5058-81 Fly wheel washer 9721-0150-13 E-ring 9792-2050-40 Washer	Mirror return lever lock claw set ミラー戻しレバーロック爪 セック 2006-0523-02 Preset operation lever set プリセット達動レバーセット 2019-0524-11 Mirror return lever set ミラー戻しレバーセット 2009-0531-11 Preset operation plate set プリセット作動板 2009-0532-11 Preset lever set プリセットルバー 2009-0542-81 Fly wheel gear set フライホールギャー 2006-5042-04 Mirror-up spring ミラーアップSP 2006-5044-04 Mirror return spring ミラー戻しSP ロック爪スプリング 2009-5051-01 Preset lever spring プリセットレバーSP フライホイールワッシャー 9721-0150-13 E-ring E リング 淳ワッシャー

XG-A CODE No. 2013-300



Part No.	Part Name		Qty
2006-0503-05	Mirror box set	ミラーポックスセット	1
(2006-5112-03)	Mirror cushion	ミラークッション	1
(2006-5114-01)	Mirror cushion-B	ミラークッションB	1
2006-0521-02	Mirror operation lever-set	ミラー操作レパーセット	1
2006-0558-02	Mirror holder set	ミラーホルダーセット	1
2006-0561-81	Operation lever-B base set (Right	ht)ミラー操作レバーB軸台セッ	11
2006-0562-01	Operation lever-B base set (Lef		V (5)
2000 0002		(左	
2006-5019-02	Mirror box apron	ミラーボックスエプロン	1
2006-5021-01	Mirror release lever	ミラーレリーズレバー	1
2006-5023-02	Release lever spring	ミラーレリーズレバーSP	1
2006-5027-01	Flare shield plate(bottom)	フレアー防止シート (下)	1
2006-5028-01	Flare shield plate(Left side)	フレアー防止シート (左)	1
2006-5029-01	Flare shield plate(Right side)	フレアー防止シート(右)	1
2006-5030-01	Flare shield support plate	フレアー防止シート補助板	1
2009-5081-01	Mirror box cover	ミラーボックス穴カバー	1
		ミラー補助ストッパーA	1
2006-5110-01	Mirror support stopper-A		
2006-5111-01	Mirror stopper	ミラーストッパー	1
2006-5113-02	Mirror support stopper-B	ミラー補助ストッパーB	1
2006-5116-05	Mirror operation lever-B	ミラー作動レバー	1
2006-5117-04	Mirror opeation lever spring		1
2006-5118-01	Mirror box light shield palte		1
2006-5119-01	Mirror stopper gum	ミラーストッパーゴム	1
2006-5120-82	Mirror arm cushion	ミラーアームクッション	1
2019-5806-01	Mirror	ミラー	1
2006-9106-01	Screw-C	止めビス	1
9611-1616-12	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	6
9721-0080-13	E-ring	Eリング	1
9721-0150-13	E-ring	Eリング	3
9794-3858-20	Washer	薄ワッシャー	1

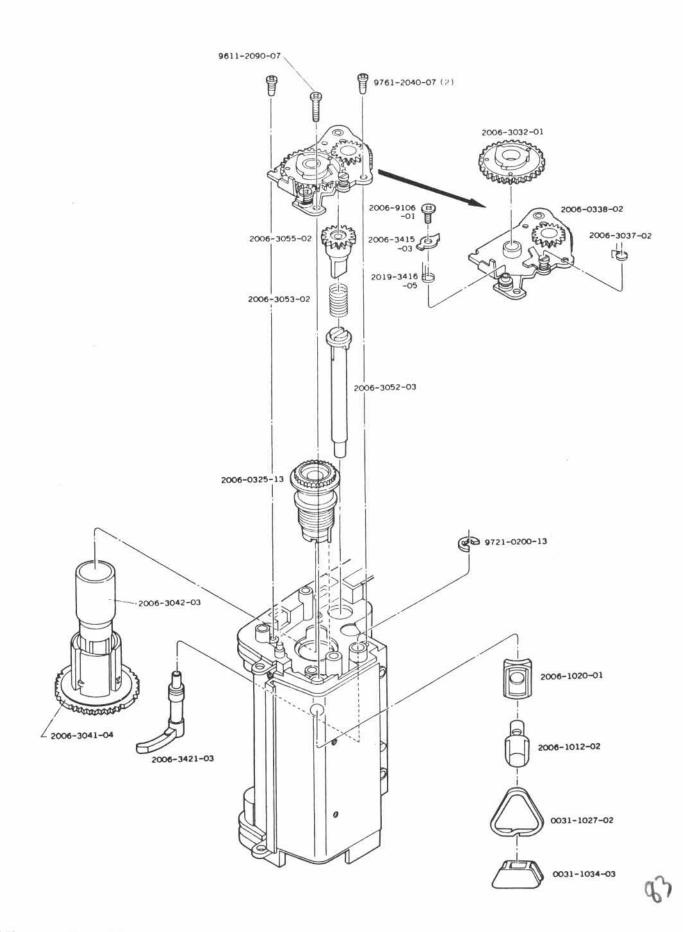
XG-A CODE No. 2013-300



d/

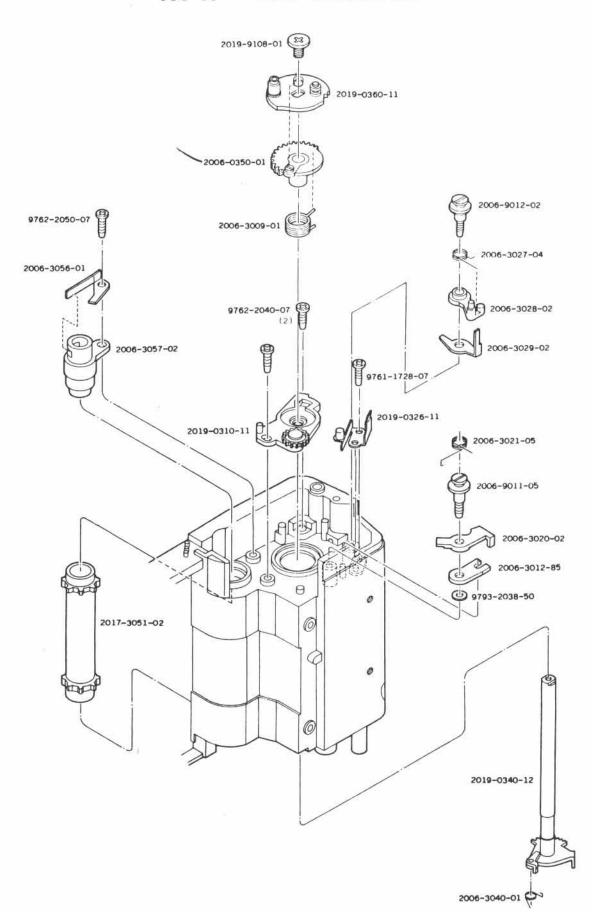
Part No.	Part Name		Qty
2019-0381-11	Counter dial set	カウンターダイヤルセット	1
2006-0384-02	Winding base palte-B set	巻取台板Bセット	1
2006-0385-01	Film indication lever axis set	フイルム表示レパーセット	1
(9613-1418-07)	Phillips type screw	十字穴付半丸皿頭小ねじ	1
2006-3404-02	Counter return spring	カウンター戻しSP	1
2019-3407-01	Counter index	カウンター指標	1
2006-3408-05	Counter operation lever	カウンター駆動操作レバー	1
2006-3410-03	Counter operation gear-B set	カウンター駆動ギヤー	1
2006-3411-04	Counter operation gear-C set	カウンター伝達ギャー	1
2006-3412-03	Counter operation gear-A	カウンター連結ギヤー	1
2006-3414-07	Return lever spring	ゼロリターンSP	1
9761-2055-07	Tap tite screw	十字穴付なべ頭タップタイトね	Ľз
9762-1745-07	Tap tite screw	十字穴付なべ頭タップタイトね	Ľ2
	:1:		
9721-0120-13	E-ring	Eリング	1

XG-A CODE No. 2013-300



Part No.	Part Name		Qty
2006-0325-13	Spool gear set	スプールギヤーセット	1
2006-0338-02	Winding base plate-A set	巻取台板 A セット	1
2006-1012-02	Strap hanger	吊環	1
2006-1020-01	Strap hanger seat	吊環座	1
0031-1027-02	Triangle hanger	三角吊環	1
0031-1034-03	Triangle hanger stopper	三角環回り止め	1
2006-3032-01	Winding gear	巻取ギヤー	1
2006-3037-02	Reversing stop claw spring	逆転防止爪SP	1
2006-3041-04	Spool	スプール	1
2006-3042-03	Spool inner barrel	スプール内筒	1
2006-3052-03	Sprocket shaft	スプロケット軸	1
2006-3053-02	R button release spring	R 釦解除SP	1
2006-3055-02	Sprcket gear	スプロケットギヤー	1
2006-3415-03	Winding operation lever-A	トンポ返リレバー	1
2019-3416-05	Winding operation lever spri	ng トンポ返りレバーSP	1
2006-3421-03	Film indication filler	フイルム表示フイラー	1
2006-9106-01	Screw-C	止めねじ	1
9611-2090-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9761-2040-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9721-0200-13	E-ring	Eリング	1

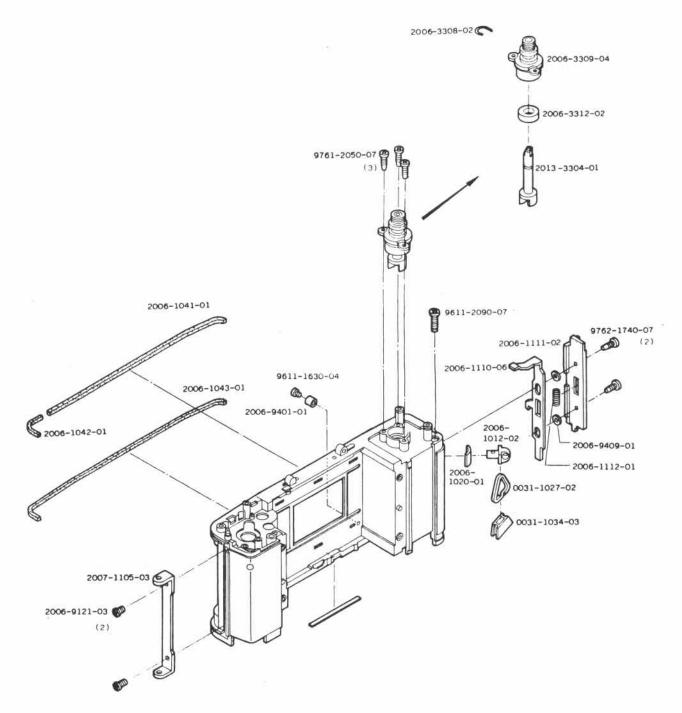
XG-A CODE No. 2013-300





Part No.	Part Name		Qty
2019-0310-11	Winding axis receiverset	巻取軸受セット	1
2019-0326-11	S4 contact set	S4 接片セット	1
2019-0340-12	Winding operation plate set	巻取操作板セット	1
2006-0350-01	Shutter charge gear-D set	シャッターチャージギヤーセット	1
2019-0360-11	Charge operation plate set	チャージ操作板セット	1
2006-3009-01	Return spring	戻しSP	1
2006-3012-85	Winding stop lever	巻止めレバー	1
2006-3020-02	Reset lever	リセットレバー	1
2006-3021-05	Reset lever spring	リセットレバースプリング	1
2006-3027-04	S4 spring	S4 SP	1
2006-3028-02	S4 change lever	S4 切換レバー	1
2006-3029-02	S4 lug plate	S4 ラグ板	1
2006-3040-01	Widning claw spring	巻取爪SP	1
2017-3051-02	Sprocket	スプロケット	1
2006-3056-01	R button lock spring	R釦ロックSP	1
2006-3057-02	Sprocket receiver	スプロケット軸受	1
2006-9011-05	Winding stop lever axis	巻止めレバー軸	1
2006-9012-02	S4 change lever axis	S4 切換レバー軸	1
2019-9108-01	Screw	止めねじ	1
9761-1728-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9762-2040-07	Tap tite screw	十字穴付なべ頭タップナイトねじ	2
9762-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9793-2038-50	Washer	薄ワッシャー	1

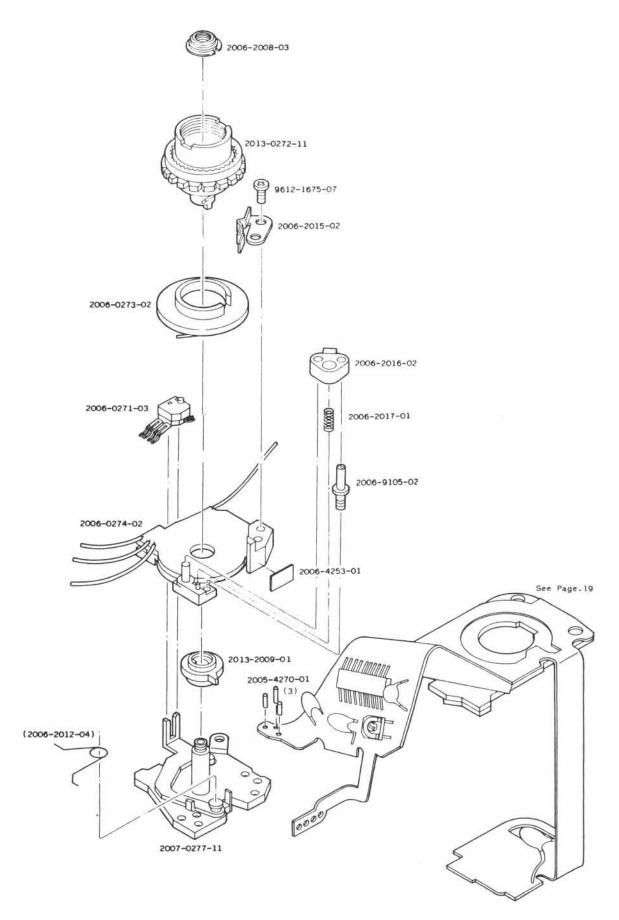
XG-A CODE No. 2013-300





Part No.	Part Name		Qty
2006-1012-02	Strap hanger	吊環	1
2006-1020-01	Strap hanger seat	吊環座	1
0031-1027-02	Triangle hanger	三角吊環	1
0031-1034-03	Triangle hanger stopper	三角環回り止め	1
2006-1041-01	Light shield packing-A	進光パッキンA	1
2006-1042-01	Light shield packing-B	遮光パッキンB	1
2006-1043-01	Light shield packing-C	遮光バッキンC	1
2007-1105-03	Hinge	ヒンジ	1
2006-1110-06	Back cover lock lever	裏蓋ロックレバー	1.
2006-1111-02	Lock cover	ロックカバー	1
2006-1112-01	Back cover lock spring	裏蓋ロックSP	1
% 2013 -3304-01	Rewinding fork	巻戻しフォーク	1
2006-3308-02	Rewinding friction spring	巻戻しフリクションSP	1
2006-3309-04	Rewinding axis receiver	巻戻し軸受	1
2006-3312-02	Light shield collar	巻戻し遮光カラー	1
2006-9121-03	Tapping screw	止めねじ	2
2006-9401-01	Film guide collar	フイルムガイドカラー	1
2006-9409-01	Back cover lock guide	裏蓋ロックガイド	2
9611-1630-04	Phillips type screw	十字穴付なべ頭小ねじ	1
9611-2090-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9761-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	3
9762-1740-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
※:Parts for only	2013-300(XG-A)		
※印は2013-300()	《G-A》專用部品		

XG-A CODE No. 2013-300



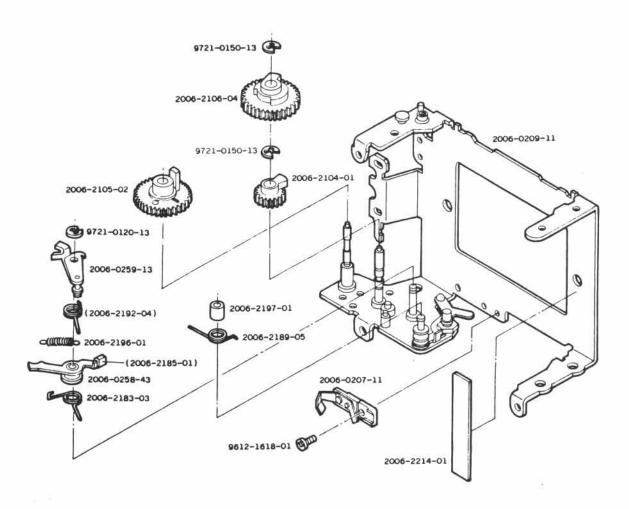
Part No.	Part Name		Qty
2006-0271-03	AM change holer set	AM切換ホルダーセット	1
2013-0272-11	Dial axis set	ダイヤル軸セット	1
2006-0273-02	ASA brush holder set	ASAプラシホルダーセット	1
2006-0274-02	ASA resistorset	回路基板Aセット	1
2007-0277-11	Shutter speed dial base plate	set シャッターダイヤル台板セッ	11
(2006-2012-04)	AM change spring	AM切換SP	1
	6		
2006-2008-03	Shutter speed dial pressure	シャッターダイヤル押え	1
2013-2009-01	Cam plate	カム板	1
2006-2015-02	Click spring	クリックSP	1
2006-2016-02	Auto lock plate	オートロック板	1
2006-2017-01	Auto lock spring	オートロックSP	1
2006-4253-01	Tape-B	フレキ接着テープ	1
2005-4270-01	Jamp lead (60.4 £=3mm)	ジャンプリード	3
2006-9105-02	Auto lock plate guide	オートロック板ガイド	1
	6		
9612-1675-07	Phillips type screw	十字穴付なべ頭小ねじ	1

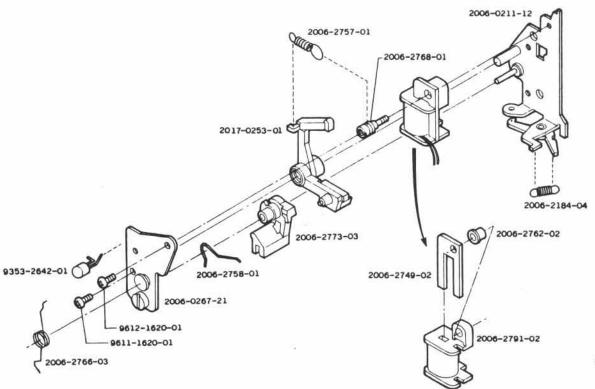
XG-A CODE No. 2013-300

Assy. Part No. 2006-0222-11 See Page.18 2006-0229-11@ 2006-2723-01 9612-1620-01 (2) 2006-2718-02 2006-2130-01 9615-1416-01 (2) 2006-2708-02 2006-2707-01 9615-1625-02 9721-0150-13 2006-2114-02 2006-0215-11 0 See Page.18 9615-1420-01 2006-2131-02 2006-2726-01 2006-2148-02 2006-0218-11 2006-2132-01 2006-2143-01 9793-1635-40 2006-2147-03 2006-0242-11 **6** 9793-2250-40 2006-2144-02

Part No.	Part Name		Qty
2006-0222-11	Shutter complete set	シャッタープロック	1
2006-0215-11	1st curtain stop lever set	一幕保止レバーセット	1
2006-0218-11	Shutter cover set	シャッターカバー板セット	1
2006-0229-11	2nd curtain stop lever set	二幕係止レパーセット	1
2006-0242-11	Shutter curtain set	シャッター幕セット	1
2006-2114-02	First curtain stop lever spring	一幕係止レバーSP	1
2006-2130-01	Adjusting screw	幕調整ねじ	1
2006-2131-02	Curtain ribbon guide plate	幕リポンガイド板	1
2006-2132-01	Ribbon guide plate screw	止めねじ	1
2006-2143-01	2nd curtain roller-A	二幕ローラーA	1
2006-2144-02	2nd curtain roller-B	二幕ローラーB	1
2006-2147-03	Ratchet 幕スプ	リング筒軸止めラチエット	2
2006-2148-02	Ratcher stop spring	ラチエット止めSP	1
2006-2707-01	2nd curatin shutter gear	二幕シャッターギャー	1
2006-2708-02	Control cam	制御カム	1
2006-2718-02	Control cam operation spring	制御カム駆動SP	1
2006-2723-01	2nd curtain stop lever spring	二幕係止レバーSP	1
2006-2726-01	Curtain shaft receiver-B	幕軸受 B	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	2
9615-1416-01	Phillips type screw	十字穴付皿頭小ねじ	2
9615-1420-01	Phillips type screw	十字穴付皿頭小ねじ	1
9615-1625-02	Phillips type screw	十字穴付皿頭小ねじ	1
9721-0150-13	E-ring	E リング	1
9793-1635-40	Washer	薄ワッシャー	2
9793-2250-40	Washer	薄ワッシャー	1

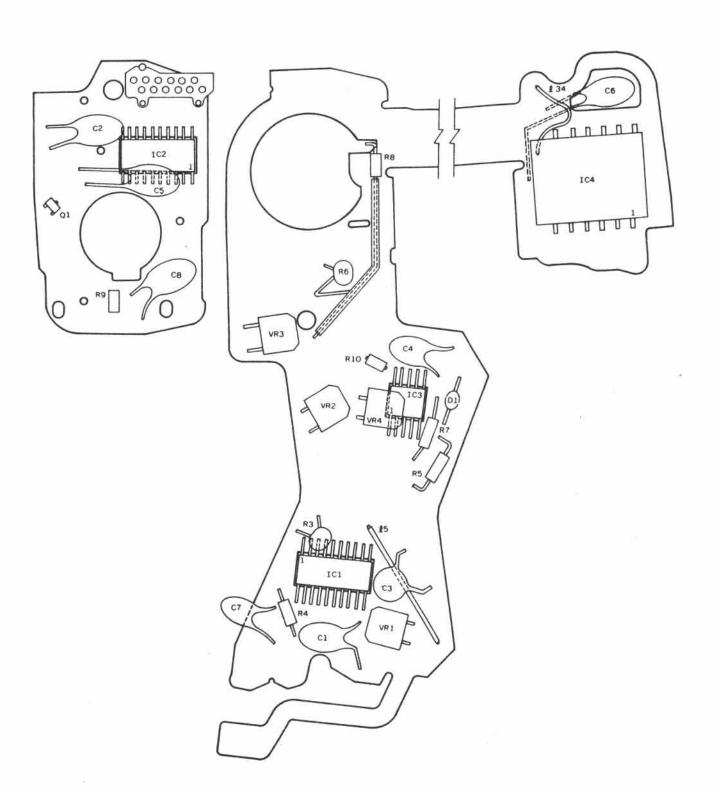
XG-A CODE No. 2013-300





Part No.	Part Name		Qty
2006-0207-11	X contact plate set	X 接片セット	1
2006-0209-11	Shutter base plate set	シャッター台板セット	1
2006-0211-12	Control base plate set	制御台板セット	1
2017-0253-01	2nd curtain release lever set	二幕解除レバーセット	1
2006-0258-43	lst curtain brake lever set	一幕プレーキレバーセット	1
(2006-2185-01)	Brake lever isolation collar	STATES OF THE STATES AND	
2006-0259-13		一幕プレーキ絶縁カラー	1
	2nd curtain brake lever set	二幕プレーキレバーセット	1
(2006-2192-04)	2nd curtain brake spring	二幕プレーキSP	1
2006-0267-21	Wiring base plate set	Mg 配線基板セット	1
2006-2104-01	Charge gear-B	チャージギヤーB	1
2006-2105-02	Charge gear-A	チャージギヤーA	1
2006-2106-04	1st curtain shutter gear	一幕シャッターギヤー	1
2006-2183-03	lst curtain brake spring-B	一幕プレーキ SP-B	1
2006-2184-04	2nd curtain brake spring	制御カム係止レバーSP	1
2006-2189-05	X lever spring	X レバーSP	1
2006-2196-01	2nd curtain brake return spring	二幕プレーキ戻しSP	1
2006-2197-01	Brake lever axis collar	二幕プレーキ消音カラー	1
2006-2214-01	Tape	幕緑金保護テープ	1
2006-2749-02	Shutter magnet core	シャッターマグネット鉄芯	1
2006-2757-01	2nd curtain release lever spring	二幕解除レバーSP	1
2006-2758-01	Over charge spring	吸着片オーバーチャージSP	1
2006-2762-02	Magnet collar	マグネット取付カラー	1
2006-2766-03	Trigger contact	トリガー接片	1
2006-2768-01	Trigger base plate screw	止めねじ	1
2006-2773-03	Trigger contact operation lever	トリガー接片作動レバー	1
2006-2791-02	Shutter magnet bobbin	シャッターマグネットポピン	1
9611-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1618-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9721-0120-13	E-ring	E リング	1
9721-0150-13	E-ring	Eリング	2
© 9353-2642-01	L.E.D (TLR108)	L.E.D (LD13)	1
◎ L.E.D けシャッター: ◎ The LED is exclude	プロックに含まれません。 ed on the shutter block.		

XG-A CODE No. 2013-300

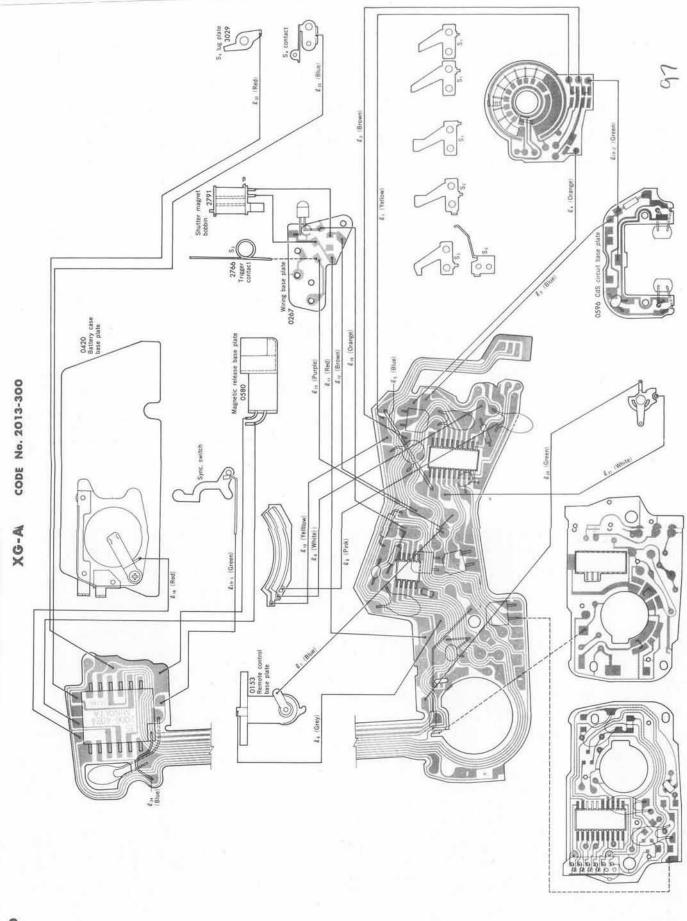


Assy Part No. 2013-0403-01 Assy. Part Name Flexible P.C. board set フレキシブル基板セット

Symbol	Part No.	Com	Part Name	Type.	Qty
IC1	2006-4301-03		- 3-4-6	M51865	1
IC2	2006-4302-03			M51866	1
IC3	2006-4303-03		IC	M51867	1
IC4	2006-4304-07			HIC	1
Dl	9361-5631-01		Diode	KB162	1
Q1	9363-1032-01	02,03	Transistor	2SA1162	1
R3	9431-1037-31			1/16W 10ΚΩ	1
R5	9422-1046-32			1/8W 100ΚΩ	1
R6	9431-3047-31			1/16W 300ΚΩ	1
R7	9422-6806-32		F1 1 1	1/8W 68Ω	1
	9422-3916-32	J 15-1	Fixed resistor	1/8W 390Ω)
	9422-8216-32			1/8W 820Ω	
R8	9422-1826-32			1/8W 1.8KΩ)1
	9422-3326-32		1/8W	1/8W 3.3KΩ	
124	2006-8408-01		Lead wire Pink	60.08/7 wires ℓ=35mm	
R9	9422-3016-62			1/8W 300Ω	1
R10	9422-2416-62		L	1/8W 240Ω	2
			Fixed resistor		
VR1	9472-1059-38			VGO62K 1MΩ	1
VR3 VR2	9472-1539-38			VG062K 15KΩ	2
VR4	9472-1529-38			VGO62K 1.5KΩ	1
C1	9535-1555-36			1.5µF/35V	1
C2	9535-6845-31			0.68µF/35V	1
C3	9563-4738-31			0.047µF1.2V	1
C4	9531-2265-31			22µF/3.15V	1
C5	9531-4765-31		Condenser	47µF/3.15V	1
C6	9531-1575-61			150µF/3.15V	1
C	9534-1555-33	or		1.5µF/25V	1
C7	9534-1555-63			1.5µF/20V	1
	9535-1555-31			1.5µF/35V	
C8	9531-3365-31			33µF/3.15V	1
1 5	2006-8403-01		Blue	Ø0.08/7 wires ₽=27mm	1
£ 34	2006-8403-01		Lead wire Blue	00.08/7 wires l=20mm	1

- The R4 is excluded on the Flexible P.C. board set
- R4は0403 (フレキセット) には含まれません。

	9422-2036-39		1/8W	20ΚΩ	1
9422-23	9422-2236-39		1/8W	22KΩ	
	9422-2436-39		1/8W	24ΚΩ	
	9422-2736-39		1/8W	27ΚΩ	
	9422-3036-39	Fixed resistor	1/8W	зокΩ	
R4 9422-3336-39 (fo 9422-3936-39 9422-4736-39	(for adjustment)	1/8W	33KΩ		
		1/8W	39KΩ		
		1/8W	47ΚΩ		
	9422-5636-39		1/8W	56ΚΩ	
	9422-6836-39		1/8W	68KΩ	
9422-1046-39 9422-2046-39		1/8W	100ΚΩ		
		1/8W	200ΚΩ		



Lead wires list

Symbol	Part No.	Color	Typ.		Qty
Q1	2006-8401-01	Yellow	60.08/7 wires	Q =70	1
l 2	2006-8402-01	Brown	00.08/7 wires	1 =70	1
l3	2006-8403-01	Blue	Ø0.08/7 wries	ℓ =45	1
Q 4	2006-8404-01	Orange	60.08/7 wires	Q =40	1
L 5	2006-8403-01	Blue	Ø0.08/7 wires	l=27	1
L 6	2006-8406-01	Grey	60.08/7 wires	№ =110	1
L 7	2006-8403-01	Blue	Ø0.08/7 wires	1 =118	1
l 8	2006-8408-01	Pink	Ø0.08/7 wires	ℓ =75	1
l 9	2006-8409-01	White	Ø0.08/7 wires	l=85	1
£ 10	2006-8401-01	Yellow	Ø0.08/7 wires	l=95	1
L 11	2006-8411-01	Red	60.08/7 wires	l=110	1
£ 12	2006-8402-01	Brown	Ø0.08/7 wires	ℓ =100	1
£ 13	2006-8413-01	Purple	60.08/7 wires	l=100	1
l 16	2006-8404-01	Orange	60.08/7 wires	Q=115	1
l 18	2006-8411-01	Red	60.08/7 wires	l=60	1
\$19-2\$19-1	2006-8417-01	Green	60.08/7 wires	l=65	2
l 21	2006-8409-01	White	60.08/7 wires	l=65	1
129	2006-8417-01	Green	60.08/7 wires	l=80	1
1 32	2006-8411-01	Red	60.08/7 wires	ℓ =150	1
l33	2006-8403-01	Blue	60.08/7 wires	Q=150	1
£ 34	2006-8403-01	Blue	60.08/7 wires	l =20	1
-					

REPAIR GUIDE

The changes from 2006 (XG-2, XG-7, XG-E) include the omission of manual shutter speed and the simplification of indication LED in viewfinder.

For the adjustments and checks other than those mentioned in this manual, refer to the Service Manual of 2006.

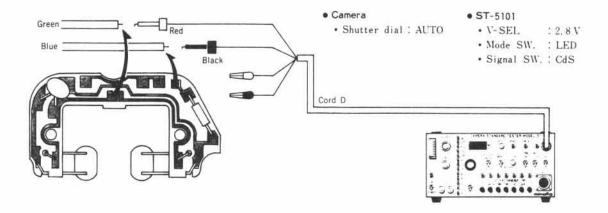
Check and adjustment of indication LED	P. 1
■Check of curtain speed	P. 2
Adjustment of auto exposure	
\blacksquare Measurement of CdS resistance value and selection of R ₁ , R ₂	P. 3
2 Selection of R ₄ ·····	P. 5
3 Adjustment of EE ·····	P. 6
4Adjustment of LED indication	P. 7
■ Adjustment of X shutter speed	P. 8
■Check of synchro time lag	P. 8
■ Check of high luminance non-interlock lock	P. 9
Check of flash function	P. 10
■ Check and adjustment of shutter block performance	
1 Check of magnet attraction	P. 12
2 Check of curtain speed	P. 12
3 Check of manual second	P. 13
4 Check of minumum operation voltage	P. 13
5Check of curtain bound	P. 13
6 Check of synchro time lag:	P. 14
■ Measuring instruments & tools	P. 15

■ Check and adjustment of indication LED

■ Measuring instrument : Camera standard tester (MODEL ST-5101)

How to check

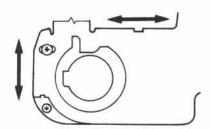
 Remove the 2 leads (green, blue) of CdS board and connect them to the tester as shown below.



- 2. Turn ON the metering switch (S_1) , and adjust the ASA dial so that the indication LED lights up continuously from ∇ (low luminance warning) to \triangle (high luminance warning).
- 3. Looking into the viewfinder, make sure that the range from ∇ to \triangle can be seen clearly without shading.
- 4. If the view is shaded, adjust according to the adjusting procedure given below.

Adjusting procedure

1. With the tester connected, loosen the LED board setscrew shown below and move the board in the direction of the arrow until the range from ∇ to \triangle can be seen clearly and evenly, and then tighten the setscrew.



■ Check of curtain speed

■ Measuring instrument : Shutter tester (MODEL S-2101, FS1D-MN4)

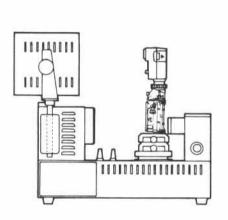
■ Standard

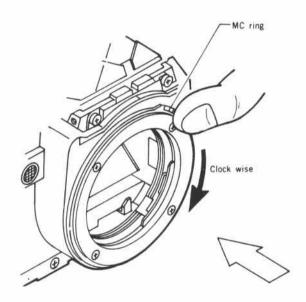
Curtain speed	$10.8 \sim 11.2 \mathrm{ms}$ (both 1st & 2nd curtains)	* Measuring
Uneveness	Within 0.3 ms (difference between A and C ranges)	speed: 1/1000

% In the case of 2006, it is checked at manual 1/1000, but in 2013, having no manual SS, operate the camera in auto mode using the light source of shutter tester and adjust the shutter speed nearly to 1/1000 by the MC ring.

Checking procedure

 Set the camera on the shutter tester, release the shutter several times while turning the MC ring clock-wise, then hold the MC ring with the finger when the indication of B range is 0.7 ms~1.5 ms.



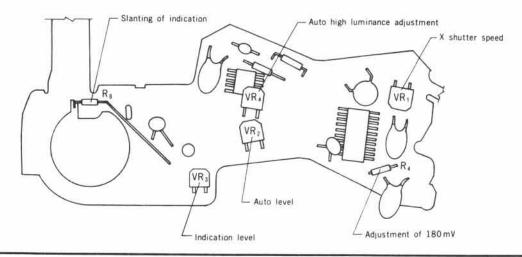


- Do not interrupt the shutter tester light with the finger during measurement.
- · When the shutter is not released, the high luminance lock might be in action.
- Release the shutter several times and check if the curtain speed is within the standard mentioned above.

If not, perform the adjustment on P.12.

Adjustment of auto exposure

Adjustment of variable and fixed resistors.



\blacksquare Measurement of CdS resistance value and selection of $R_1,\ R_2$

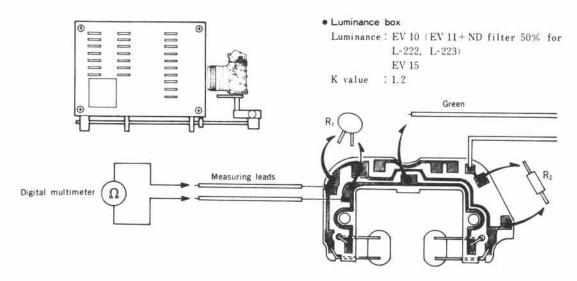
■ Measuring instruments : Luminance box ⟨MODEL L-2101, L-222, L-223⟩

: Digital multimeter (Type 2508, 3476, 2507)

: Standard lens (50 mm/F 1.4)

Measuring procedure

1. Remove the lead (green) of CdS board and R_1 , R_2 as shown below. Solder the 2 measuring leads to the part of R_1 , and make the connection to the tester.



2. Measurement of $R_{\rm BV}$ 5 (If the measured value is outside the range from 12 to 40 Kohm, replace CdS.)

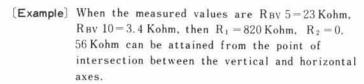
Measure the resistance value with the luminance box set to EV 10 (EV 11+ND filter 50% for L-222, L-223).

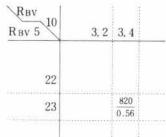
3. Measurement of RBv 10 (If the measured value is outside the range from 1.6 to $5.6\,\mathrm{Kohm}$, replace CdS.)

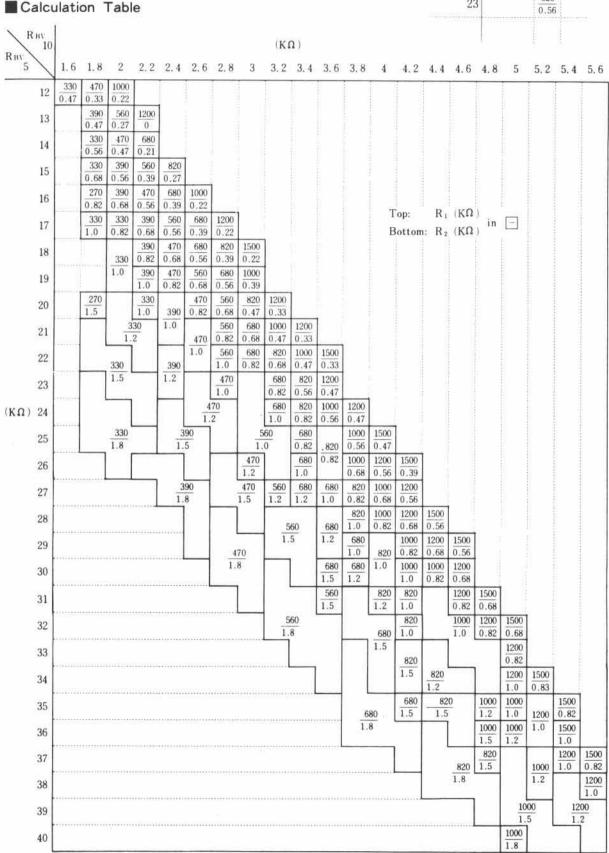
Measure the resistance value with the luminance box set to EV 15.

■ Selection of R₁, R₂

Decide R_1 and R_2 from the measured values (or approximate values) of $R_{\rm BV}$ 5 and $R_{\rm BV}$ 10 with reference to the table on the next page, and fit them on the CdS board.







2 Selection of R₄ - Adjustment of 180 mV-

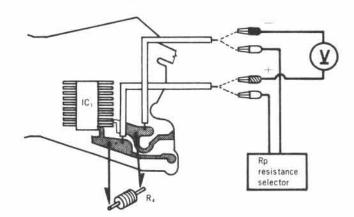
 \blacksquare Measuring instuments : Rp resistance selector $\langle \text{MODEL RS-N. } \blacksquare$, \blacksquare , \blacksquare , \blacksquare

: Digital multimeter (Type 2508, 3407, 2507)

■Standard : 180⁺²/₋₄ mV

Adjusting procedure

1. Remove R_4 and solder the 2 measuring leads to R_4 , then make the connection to the tester as shown below.



- 2. Turn ON the metering switch (S_1) and adjust the dial of Rp resistance selector so that the voltage indicated on the digital tester is the most approximate to $180\,\mathrm{mV}$.
- 3. Select R_4 whose resistance is the most approximate to the value obtained by Rp resistance selector, and then solder it to the circuit board. Measure the voltage at either end of R_4 (disconnecting the Rp resistance selector), and make sure that the voltage is 180^{+2}_{-4} mV.
 - If it is not within 180^{+2}_{-4} mV, check again to decide whether to grade up or down the resistance of R_4 by one rank.

Increasing the resistance of R4 ······increases voltage.

Decreasing the resistance of R4decreases voltage.

[Types of R₄]

Resistance value $(K\Omega)$	Part No.	Resistance value $(K\Omega)$	Part No.
20	9422-2036-32	39	9422-3936-32
22	9422-2236-32	47	9422-4736-32
24	9422-2436-32	56	9422-5636-32
27	9422-2736-32	68	9422-6836-32
30	9422-3036-32	100	9422-1046-32
33	9422-3336-32	200	9422-2046-32

3 Adjustment of EE

■ Measuring instruments : Luminance box (MODEL L-2101, L-222, L-223)

: EE tester (MODEL EE-2101, EE-2111)

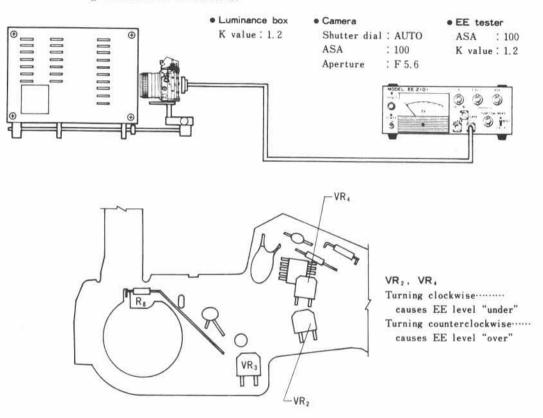
: Standard lens (50 mm/F 1.4)

Standard :

Allowable range of EE level	0±0.8EV
Variation of EE level	0.6EV or less

Adjusting procedure

1. Set the measuring instruments as follows:



- 2. Set the luminance box to EV 9. Release the shutter, adjust by turning VR_2 so that the EE level is within $0\pm0.8\,EV$.
- 3. Next, set the luminance to EV 15, and adjust by turning VR_4 so that the EE level is within $0\pm0.8\,EV$.

Confirmation: Check the EE level at EV9 and, if it is not within $0\pm0.8\,\text{EV}$, make the above-mentioned adjustments 2 and 3 again.

4 Adjustment of LED indication

■ Measuring instruments : Luminance box ⟨MODEL L-2101, L-222, L-223⟩

: Standard lens (50 mm/F 1.4)

Standard

(1) Luminance: EV 11 Allowable positions of : 100 LED indication (±1EV) Aperture : F8

	+ 1 EV	+0.5EV	0	-0.5EV	- 1 EV
60	\$	\$	•	•	•
30	•	\$	\$	\$	•
:	•	•	•	\$	❖

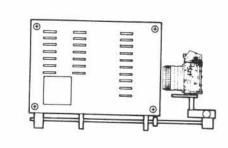
(Note) When only LED ";" is indicated, change the luminance to EV 12 (ASA 100) or the aperture to F 5.6, and check if LED "30" lights up.

(2) Luminance: EV 14 Allowable positions of : 100 indications (±1EV) Aperture : F 5.6

	+ 1 EV	+0.5EV	0	-0.5EV	- 1 EV
1000	\$	\$	•	•	•
500	•	\$	\$	· O	•
250		•	•	\$	φ.

Adjusting procedure

1. Set the measuring instrument as follows:



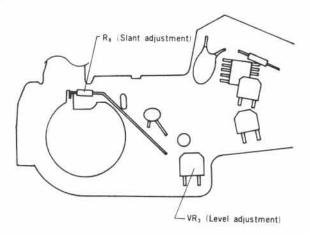
Luminance box

K value: 1.2

Camera

ASA : 100

Shutter dial : AUTO



- 2. Adjust by turning VR3 so that LED "30" lights up when measured with luminance at EV 11 and aperture at F8. Turning VR3 clockwise causes the indication to be shifted upward, and turning it counterclockwise causes the indication to be shifted downward.
- 3. Next, make sure that the LED of standard (2) lights up when measured with luminance at EV 14 and aperture at F 5.6. If an LED outside the allowable range is indicated, make the adjustment (of slant) as follows or turn VR3 so that the standards (1) and (2) are satisfied.

Adjustment of slant

- When indicated LED is deflected toward the lower speed side than standard (2) Change the resistor (R8) to larger resistance.
- When indicated LED is deflected toward the higher speed side than standard (2) \cdots Change the resistor (R₈) to smaller resistance. (**) ※If changing R₈ is not enough, shortcircuit R₈ with lead wire.
- After the adjustment of slant, perform the adjustments 2 and 3 again.

■ Adjustment of X shutter speed

This adjustment should be performed after auto exposure adjustment. (Be sure to make this adjustment after replacement of R_4 or adjustment of EE.)

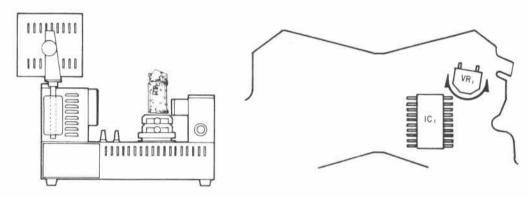
■Measuring instrument : Shutter tester ⟨MODEL S-2101, FS1D-MN4⟩

Standard :

Std	value	Allowable	range
16	.7 ms	11, 0~22.	0 ms

Adjusting procedure

1. Release the shutter with the dial set to X, and adjust by turning VR_1 so that the shutter speed is in a range of 15.0 to 18.5 ms. Turning VR_1 clockwise decreases the shutter speed, and turning it counterclockwise increases it.



Check of synchro time lag

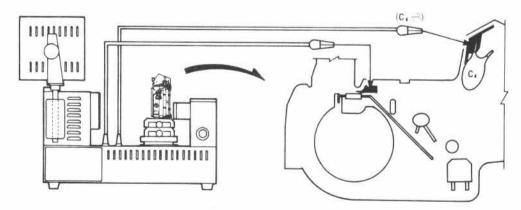
■ Measuring instrument : Shutter tester (MODEL S-2101, FS1D-MN4)

Standard :

Shutter dial	X
A range	0.3 ms or over
B range	2.0 ms or over

How to check

1. Set the measuring instrument as follows:



- 2. When the shutter is released with the dial set to X, the synchro time lag should be within the standard mentioned above.
 - If not, make the adjustment on P. 14.

■ Check of high luminance non-interlock lock

■ Measuring instrument : Luminance box ⟨MODEL L-2101, L-222, L-223⟩

■ Standard

(1) Luminance: EV 15
ASA : 250
Aperture : F 5.6

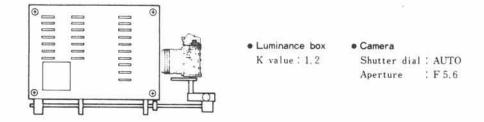
(2) Luminance: EV 14
ASA : 125
Aperture : F 5.6

It should be unable to release with △ (high luminance non-interlock)
ON.

It should be able to release with △ (high luminance non-interlock)
OFF.

How to check

1. Set the measuring instrument as follows:



- 2. When light is measured with luminance at EV 15 and camera's ASA at 250, the high luminance warning (△) should turn ON and it should be unable to release the shutter.
 - When light is measured with luminance at EV 14 and ASA at 125, the high luminance warning (△) should turn OFF and it should be able to release the shutter.
- 3. If the standard is not satisfied, re-adjust the LED indication (P.7).

Check of flash function

1 Check before completion

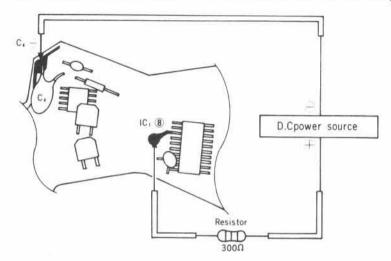
■ Measuring instrument : Constant voltage D.C power supply (MODEL 524B, E-1, E-2)

Standard :

Voltage (V)	Indication in viewfinder	Release the shutter						
0	Auto speed	Runs according to the auto speed						
1.6	OFF	Fully opens and 2nd curtain runs with power OFF						
2.0	"60" LED ON	Fully opens and 2nd curtain runs with power OFF						

How to check

1. Connect the power source as shown below. (Connect 300 ohm resistor to the positive side.)



- 2. Set the shutter dial to AUTO, change the supply voltage to 1.6 V and 2.0 V, then check the indication in viewfinder and the shutter operation to see if they are as specified.
 - If the standard is not satisfied, refer to the trouble shooting chart (P.11) of Service Manual for 2006.

2 Check after completion

■ Measuring instruments : Shutter tester (MODEL S-2101, FS1D-MN4)

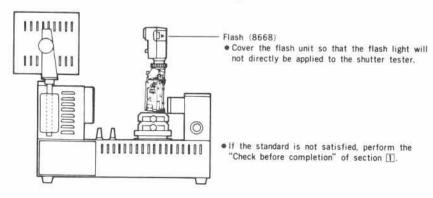
: Flash (Auto Electroflash 200X...Code No. 8668)

■ Standard

With flash charge completed, the "60" LED should blink, and the shutter speed should be shifted to $17 \sim 23 \, \text{ms}$.

How to check

- 1. Set the flash (8668) on the camera, set the shutter dial to AUTO, and metering switch to ON. Then charge the flash and check the alteration of LED indication in viewfinder.
 - During charge, the auto shutter speed should be indicated and on completion of charge the "60" LED should blink with other indications turned OFF.
- 2. With the shutter dial set to AUTO, when the shutter is released after completion of flash charge, the shutter speed should be within a range of $17 \sim 23 \, \text{ms}$.



Check and adjustment of shutter block

■ Measuring instruments : Camera standard tester (MODEL ST-5101)

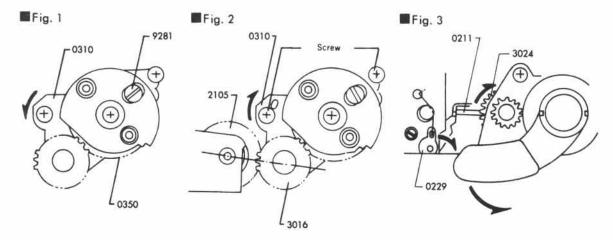
: Temprary body (2006-0101-75)...Not required when checked with body

completed.

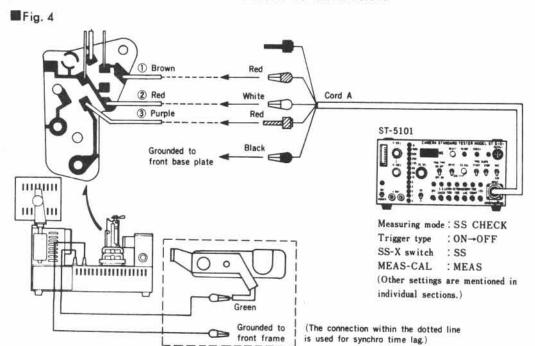
■ Preparations

1. Check before building it into body.

- ① Shift the take-up shaft bearing (0310) of temporary body (2006-0101-75) in the direction of the arrow, and set the eccentric screw (9281) of shutter charge gear D (0350) to the position of Fig. 1.
- ② Attach the shutter block to the front base plate of the temporary body, and shift the front base plate to the winding side of the body to set it up.
- 3 Shift the take-up shaft bearing (0310) so that the (-) mark of charge gear A (2105) matches the crest of shutter charge gear C (3016) as in Fig. 2, and then tighten the screw.
- (4) Slowly wind and adjust by eccentric screw (9281) so that winding is completed with sprocket idle gear (3034) and is over-charged by one tooth from the control base plate (0211) when the 2nd curtain stop lever (0229) greatly moves in the direction of the arrow (where the shutter charge is completed).

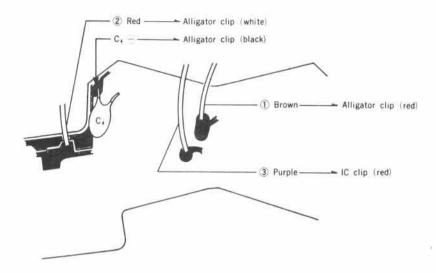


(5) Connect the shutter block leads to the tester as shown below.



110

- 2. Check with body completed
 - ① Remove the top cover, and connect the leads from shutter block to the tester as shown below.
 - \bullet Unsolder the shutter block leads $\bigcirc \sim \bigcirc \$ (Fig. 4 of P.11) and connect them to the tester (ST-5101).



② Set the shutter dial to B or X. (Release lock works in AUTO mode.)

1 Check of magnet attraction

■Standard : It should not cause failure of exposure at 1.5 V.

How to check

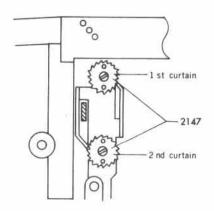
- 1. When shutter is released with V-SEL switch of ST-5101 set at 1.5V and SS-SEL switch at 1 (sec.), shutter should not cause failure of exposure.
 - If exposure failure takes place, check for stains, scratches, etc. on the magnet surface.

2 Check of curtain speed

■Standard : 10.8~11.2 ms (both 1 st & 2 nd curtains)

How to check

- When shutter is released with V-SEL switch of ST-5101 set at 2.8 V and SS-SEL switch at 1000, the curtain speed should be within the standard.
 - If the standard is not satisfied, adjust it by ratchet (2147). (When checking with body completed, remove the battery case base plate.)



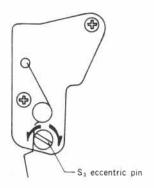
3 Check of manual second

Standard :

Shutter speed	Std value	Allowable range				
1/1000	0.98 ms	0.7~1.34 ms				
1/30	31.3 ms	26.3~37.2 ms				
1/1	1000 ms	841~1190 ms				

How to check

- 1. Check the shutter speed with V-SEL switch of ST-5101 set at 2.8 V, and SS-SEL switch to 1000, 30, 1.
 - If the standard is not satisfied, adjust by turning the eccentric pin of S3.



4 Check of minimum operation voltage

Standard:

Difference in speed for 1/1000 between supply voltage 2.8 V and 1.85 V should be within 0.4 ms.

How to check

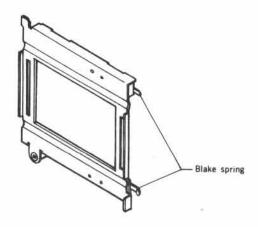
- Check the speed with SS-SEL switch of ST-5101 set at 1000, and V-SEL switch to 2.8 V. 1.85 V.
 - If the standard is not satisfied, check the attraction of the magnet as in Sec. 1.

5 Check of curtain bound

Standard : There should no bound within the image plane.

How to check

- Release the shutter with V-SEL switch of ST-5101 set at 2.8 V and SS-SEL switch at 125, and check for bound through the indicator lamp of shutter tester.
 - If bounding takes place, remove the shutter cover plate (0218) and check for deformation of the brake spring.



1/2

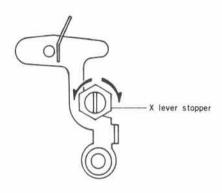
6 Check of synchro time lag

■Standard :

Shutter speed	1/60					
A range	0.3 ms or over					
B range	2.0 ms or over					

■How to check

- 1. Connect the X contact lead (green) to the shutter tester. (Fig. 4 of $P.\,11$)
 - When checked with body completed, use a hot shoe jig or remove the top cover and follow the procedure of P.8.
- 2. Release the shutter with V-SEL switch of ST-5101 set at $2.8\,\mathrm{V}$ and SS-SEL switch at 60, then check the values of A and B ranges.
 - If the standard is not satisfied, adjust by turning the X lever stopper.



Measuring instruments

- Standard luminance box (Model L-2101, *L-222, *L-223)
- EE tester (Model EE-2101, EE-2111)
- SS adaptor for EE tester (Model SD-2101)
- Shutter tester (Model S-2101, *FS1D-MN4)
- Time counter (Model TC-1)
- Digital multimeter (Model 2508, *3476, *2507)
- Camera standard tester (Model ST-5101)
- Constant voltage D.C power supply (Model 524B, *E-1, *E-2)

Oil

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- Mirror angle adjuster (Model MA-Ⅲ, *Ⅱ)
- Rp resistance selector (Model RS-VI. * []. * [].
- 1000 mm collimator (Model RC-1000 III, *II, *I)

(Items marked "%" have been discontinued)

■ Tools used in common

■ Tool No. 2006-0101-75

Temporary body

■ Tool No. 2006-0415-75

Battery adapter

■ Tool No. 2006-2020-75

Shutter button pressure spanner

■ Tool No. 2006-2291-75

Sync. terminal spanner

■ Tool No. 2006-3003-75

Winding lever pressure

■ Tool No. 2006-3013-75

Top cover set nut B spanner

■Tool No. 2006-3309-75

Temporary nut

■ Tool No. 2006-3310-75

Top cover pressure nut spanner

■ Tool No. 054-5202-79

Master lens for 054 finder back adjustment

- Flat plate (for 2005)
- Body back gauge (43.70 mm)
- Dial gauge

Sub materials

Grease

• # 3340

• # 335

- # 333
- # 1150D
- LOSIMOL ELT-BAE

Adhesives

- BOND G 17
- 3-BOND 1401B (for screw lock)
- LOCTITE #242
- SILICON BOND KE-441RTV

Cleaner

FLONSOLVE

Inspection Standard

- This standard specifies uniform performance levels for servicing in order to guarantee our product's quality to customers.
 Each item is detailed so that you can follow this standard when you receive inquiries from users or are asked for checks.
- 2. When delivery or acceptance inspections are required, do not directly apply this standard to the performance measurements, but refer to the corresponding standard (manul).
- Some users, because of their taste or special purposes, may require adjustment of this standard. In this case, perform the adjustment according to the user's request whenever possible.

Check Item	Check point	Description							
Winding	Winding lever	Not smooth (uneven, catching), shifted back, noise, vertically loose. Winding torque···less than 4 kg·cm (with film).							
	Spool	Operation···Not smooth (uneven, squeaky). Check film winding. No-load operation···250±50 g.							
	Sprocket	OperationSlip, back lash (after winding). Operation with rewind button depressed (uneven, catching). Claw position.							
Rewinding	Rewind button	OperationDepressing, releasing, catching, uneven. Rewind button lock positionover 0.3 mm (from bottom of lower cover).							
2	Rewind crank	Operation…Off-center, squeaky, gritty, defective spring. Film rewinding resistance…250~650 g.							
Film counter	Feed	OperationWhen wound twice from S, indication should be 1. It should correctly operate up to 36+1. Check for failure, standstill, skip, deflection. Deflection of scale positionCenter of letter should be within the range of index. Scale letter should be easy to read.							
	Return	OperationIt should return to S when back cover is opened.							
Film signal	Appearance	OperationSignal should be as illustrated at the 1st frame on counter, midway, 36+2 frames. Check for unsmooth operation (catching, etc).							
		No film 1 st frame Midway 36+2 frames							
		Over 1/4 Slightly visible							
	Disappearance	OperationSignal should disappear just before film is disengaged from spool in rewinding.							
Shutter	Shutter button	Operation…Not smooth, loose, catching, shock, stained, wrong position. Operating-resistance…250±50 g. After-operation allowance…over 0.2 mm							
	Dial	OperationNot smooth, clicking, auto lock, loose. Auto lockLoose, squeaky, gritty, etc. Scale deflectionCenter of letter should be aligned to index.							

	Check point	Description						
Shutter	Shutter curtain	OperationOverlap, return (during little-by-little winding), bound, 2 nd curtain appearance (in slow shutter), bump, stop, noise. Curtain speedWithin 13 ms for both 1 st and 2 nd curtains.						
	X shutter speed	11.0~22.1 ms.						
	Synchro	ConductionLight emission, No shorting during winding. Delay time						
		Contact Shutter speed Measurement Standard						
		Time until contact is ON after over curtain running. (A range) 0.3 ms						
		auto setting Time until curtain appearance after contact is ON. (B range) 2 ms						
		Contact efficiency						
		Contact Measuring time Shutter speed Standard						
		X 1.0 ms X & X speed auto setting over 60%						
	_	Insulation resistance…over 10MQ (250 V D.C resistance meter)						
		spring. Return to ON position after B.C check, return to click position from lever contact position self side. Letter indication should be aligned to lever index.						
Self-timer		OperationLamp should start blinking within 1 sec. after S button release and blinking cycle should become faster just before release. Alteration of blinking cycle: Start Blinking start Blinking quickens Within 1 sec.						
	Battery Checker	OperationLamp should be lighted exactly. Lamp should be on in the range from 1/2 or over to B.C contact ON BC 1/2						
Focus	Mirror	Operation…Loose, two-step, timing, wrong position, bound. Stop position…45° ±30° Raising position…It should be unseen behind flare preventing board.						
	Body back	43. 70±0. 01 mm						
	Finder back	43. 56±0, 025 mm						
Finder	View	Image turnover, ∞ matching, scale plate deflection.						
	Speed figure band	CITE TO THE PARTY OF THE PARTY						

Check Item	Check point	Description									
Back cover	Opening Closing	Operation…Locking, looseness after locking. It should smoothly release who rewinding knob is shifted up.									
	Pressure plate	Distortion, projection, irregular surfaces, impurities, stains, inclining, easy to come loose.									
Auto exposure	ASA dial	OperationNot smooth, catching, deflecting. For ASA letter, scale and frame, the 3 rd scale should be visible. 100 correct, or 100 100									
	Over range	LENS: 50 mr	n F 1. 4								
	release lock	Luminance ASA Aperture Shutter release									
		EV 15	250	F	5. 6	Release	lock s	should w	ork.		
		EV 14	125	F	5. 6	Release	should	work.			
		It should be	exactly	lock	ed wit	h 1000	矿 or	1000 %	۶ LEI) lamp l	ighted
	LED indication	Scratches, du LED differen									
		Luminance	Aperture	ura	Correc	t		Allowa	ble ran	ge	
		Lummance		ure	LED		+ 1	+0.5	0	-0.5	-1
		200000	F5.6		500	1000	\$	\$	•	•	•
		EV 14		6		500		\$	\$	\$	•
		-				250	•		•	\$	*
		EV 11	F 8		30	60	\$	\$	•	•	•
						30		*		*	•
		LED other than correct LED and adjacent LED should not be lighted. LED lighting voltage…2.0V (in darkness).									
	Exposure correction	OperationNot smooth, clicking, lock release.									
	Exposure error	LENS: 50 mm F 1. 4. ASA: 100									
		Luminance EV 15		Aperture EE level allowable range					Variation		
		EV 14 F5.6 Within±0.8 EV Within±0.6							in±0.61	EV	
Other performance	Checker voltage	Room temperature: 25°C • It should light up at 2.15 V. • It should not light up at 1.85 V.									
	Touch switch operating resistance	\bullet LED indication is on with $10M\Omega$, and off with $30M\Omega$.									

Check Item	Check point	Description					
Other performance	Release lock minimum voltage	 Release lock should work at 1.75 V. Release should work at 2.15 V. 					
	Performance assuring voltage	2. 15~3.0 V (D.C power supply: 2. 25~2.8 V)					
	Current	(D.C power supply: 2.	8 V)				
	consumption	Item	Standard				
		B.C lighted	35 mA max.				
		• LED 1 lamp 2 lamps • Metering	10mA max.				
		Releasing	30 mA max.				
	Leak current	Less than 5 µA (D.C power supply: 2.8 V)					
Accessories	Accessory	Looseness, spring pressure, removal, inclining.					
	Remote control terminal	Operation…It should be easy to detach. Looseness, heavy, release, catching. Cable release switch operation…70~300 g.					
	Eye-piece attachment	Clicking, easy to come loose, inclined.					
	Lens lock	OperationHeavy, light, gritty, squeaky, loose.					
Others	Interchanges ability with exclusive flash	LED 60 blinking with exclusive flash charge completed. SynchronisingWith charge completed, it should be tuned irrespective of shutter dial position.					
	Interchangeability with winder	Winder connecting terminal voltage • Winding completed (S ₄ ON)···over 1.0 V. • Releasing completed (S ₄ OFF)···below 0.2 V.					